1996 UT Series Owner's Handbook.

FRONTERA

HOLDEN

Owner's Name .....

Address .....

Town .....

State.....Postcode .....

Model Name .....

Reg. No.....Eng. No. .....

Odometer Reading .....

Date of Purchase .....

(17 character I.S.O.V.I.N.) Vehicle Identification Number

Vehicle Identification Certificate

Selling Dealer's
Stamp & Signature

Isuzu-General Motors Australia Limited, Aust. Co. No. 006 962 572 (hereinafter I-GM).

Change of name, address or ownership

In the event of a Safety Recall, or for various reasons, we may need to contact you as the owner of this car. Also, if less than three years old, this car will qualify for Roadside Service (refer Chapter 9), provided our owner name and address records are current. If you have recently changed your address, or name, or purchased this car second-hand, please help us to help you by taking a few minutes to fill in and mail the form on the third page of this handbook.

Part No. 92074392
August 1995 (Frontera Print 1)

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We thank you for choosing Holden and want to assure you of our continuing interest in your driving pleasure and satisfaction.

This handbook applies to all Frontera. Therefore, you may find reference in this Handbook to some equipment not fitted to your own car.

Please note that all information, illustrations and specifications in this Handbook are based on the latest production information available at the time of printing. I-GM reserves the right to make changes at any time without notice and without incurring any obligation.

CHANGE OF ADDRESS OR OWNERSHIP

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Please tick the appropriate box:

☐ Original Owner ☐ Subsequent Owner

Mr, Mrs, Ms, Miss, Dr, etc.

First name in full or initials

Surname or Name of Company/Institution/Government Department

Address

Street/box

City/Town

State Postcode

Car registration number

Holden Number (see page 8-4 of this book)

ISOVIN No (shown on page 8-5 of this handbook)

Place in an envelope and mail to:

The Manager - Warranty Administration
Service Department
General Motors-Holden's Automotive Limited
Box 548D, G.P.O.
Melbourne
Victoria, 3001

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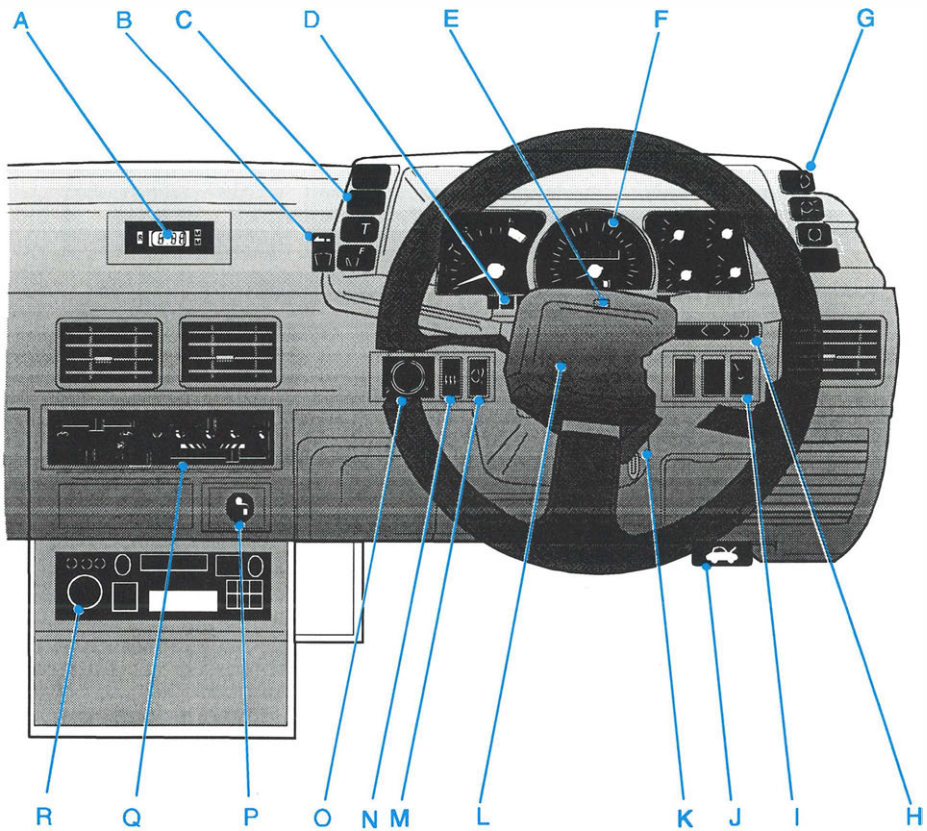
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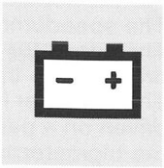
WARNING LIGHTS

Battery!

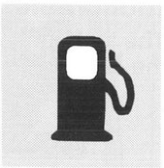
To check that the warning light is working, the symbol is displayed when the ignition is turned to ON - until the engine is started.

If the symbol is illuminated when driving it indicates that the generator is not charging. If the generator drive belt is OK there is a problem in the charging system and you should see your Holden Dealer.



Low fuel!

This symbol is displayed when the petrol tank is approaching empty. Never let the tank become empty.



Oil pressure!

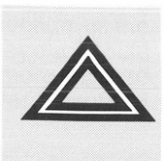
To check that the warning light is working, the symbol is displayed when the ignition is turned to ON - until the engine is started.

The symbol may be displayed intermittently when the engine is hot and idling, but must go out when the engine speed is increased.

If the symbol is illuminated while driving, it indicates that the oil pressure is dangerously low. Stop immediately and check the engine oil level (refer chapter 7). If the level is normal, have the system checked at your nearest Holden Dealer. Do not drive the vehicle with this symbol showing.

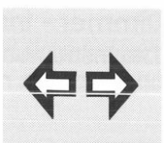
Hazard warning flasher

The symbol flashes when the hazard switch on top of the steering wheel is turned on. All the turn signals will flash when the hazard switch is on, refer page 1-10.



Turn signals

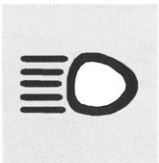
The appropriate arrow will flash when the left or right turn signals are in use.



WARNING LIGHTS

High beam

This symbol is displayed when the headlight high beams are in use.

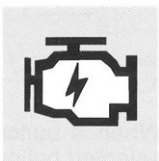


Check engine!

Your vehicle is fitted with an Electronic Engine Management System. The check engine symbol indicates when system service is required.

To check that the warning light is working, the symbol is displayed when the ignition is turned to ON - until the engine is started.

If the symbol is illuminated while driving it indicates a fault in the Engine Management System. Although the vehicle may still be driveable it is recommended you have a Holden Dealer correct the problem as soon as possible.



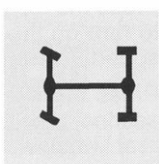
Brakes and park brake!

The symbol is displayed when the ignition is turned to ON and the park brake is applied.

If the symbol is illuminated when the park brake is released it indicates a fault with the brake system. You should immediately stop on the side of the road as carefully as possible. Do not proceed until satisfied that cautious progress is possible or that the cause of the problem has been fixed.

Four wheel drive transfer lever

The symbol is displayed when the transfer lever is shifted to the 4H or 4L position. It does not necessarily mean the vehicle is operating in four wheel drive. Refer to chapter 4 for driving instructions.



LIGHTS, cont.

Interior lighting

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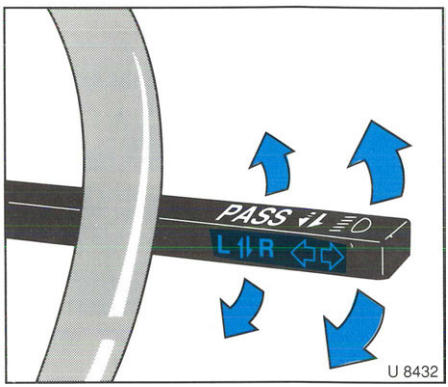
Turn signals

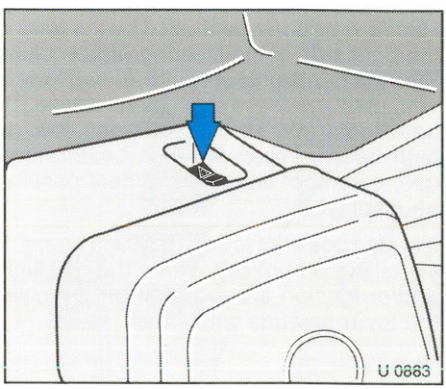


The turn signal lever is on the right side of the steering wheel column. Push the lever down to signal a right turn, up to signal a left turn.

In some turns (such as changing lanes) the steering wheel is not turned far enough to cancel the turn signal. So, to indicate a lane change, move the lever part way and hold. The lever will return to the neutral position when you release it.

An arrow on the instrument panel will flash when the lights are in operation.

Hazard warning flasher



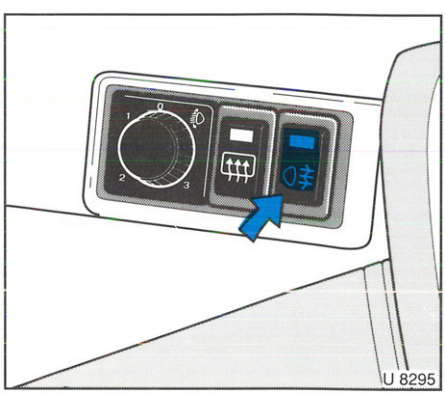
Press the front of the switch to turn the hazard warning flasher on, press the rear of the switch to turn off. The hazard warning flasher works regardless of the ignition position.

When turned on, all turn signals will continuously flash.

Use the hazard warning flasher to warn other drivers any time your vehicle becomes a traffic hazard, day or night.

Use of the hazard warning flashers while the vehicle is moving is prohibited by Law in some States.

Fog lights



Press the button illustrated to turn the rear fog lights off or on. An indicator light in the switch will glow when the fog lights are operating.

The fog lights will come on when the headlights are switched on.

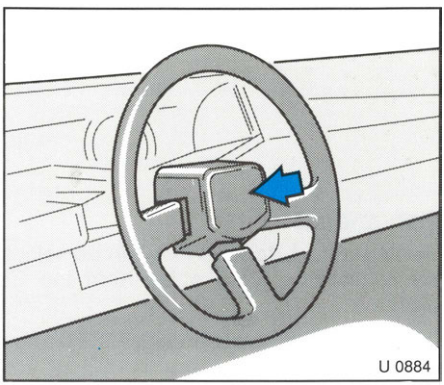
RADIO, HORN

Radio, cassette

Please refer to separate instruction supplement, provided in the glovebox for radio/ cassette control.
Information on the operation of the radio and cassette player will also be provided in the glovebox.

Horn

Press the pad in the centre of the steering wheel to activate the horn.



HEATER

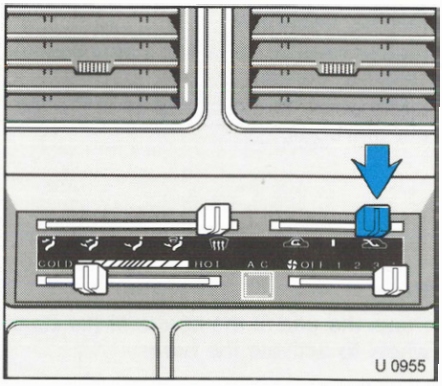
Re-circulation lever

Air intake source is controlled by sliding this knob:

Right Outside air is drawn into the vehicle.

Left Air within the vehicle is re-circulated with the aid of the fan.

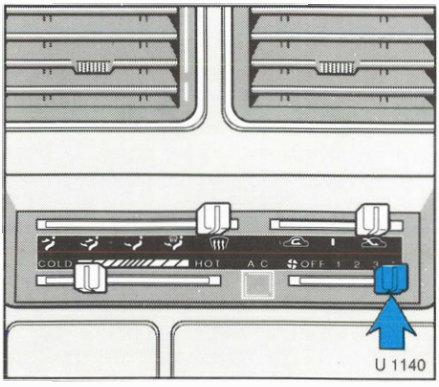
Re-circulating the inside air for an extended time is not recommended; switch to outside air as soon as possible to renew the air.



Fan speed

Fan speeds 1 through to 4 can be selected by sliding the knob away from the OFF position.

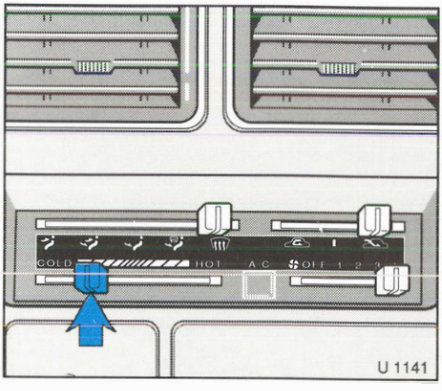
The fan will only operate when the engine is running.



Temperature control

The temperature of the incoming air is controlled by sliding this knob.

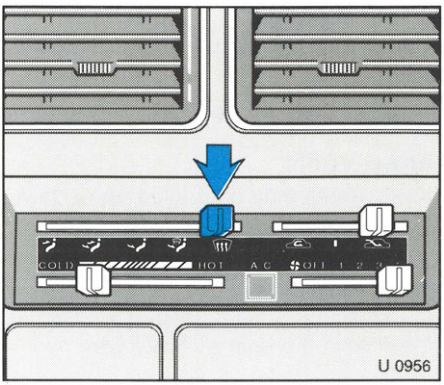
The further the slider knob is towards HOT the hotter the incoming air will be.



HEATER

Selecting air vents

Different vents are selected when this lever is set in the following positions.



- Air will flow from the centre and side vents
- Air will flow from the centre, side, knee and foot vents. The air from the foot vents is warmer than that from the upper vents, except when the temperature control knob is moved to its extreme right or left positions, when the air from the upper and lower vents will be at the same temperature.
- Air will flow from the foot vents
- Air will flow from the foot vents and a small amount will flow from the windscreen and side window demister vents.
- Air will flow from the windscreen and side window vents.

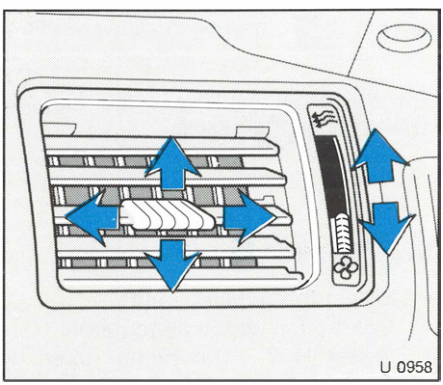
Side vents

Side vents can be angled up/down or left/right.

Side vents have an additional lever on the side of each vent which can be moved up or down. The side lever controls the source of the air that is delivered from the side vent.

It the lever is in the upper position air from outside the vehicle is delivered, regardless of the position of the re-circulation lever; it overrides the re-circulation lever for that vent. The volume of air supplied is dependent on the speed of the vehicle.

If the side lever is in the lower position air is supplied as per the re-circulation lever. The volume of air supplied can be increased by switching on the fan.



HEATER, AIR CONDITIONING

Centre vents

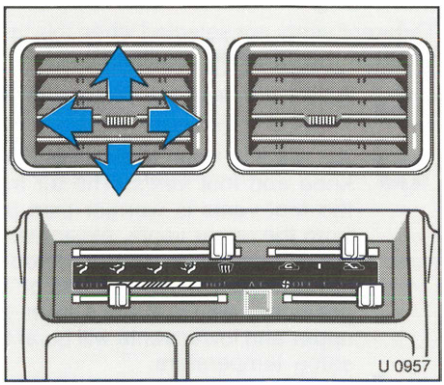
Centre vents may be angled up/down or left/right.

Knee vents

Knee Vents may be angled up or down.

Foot vents

Foot vents are fixed, as they provide air to the feet in the best possible way.

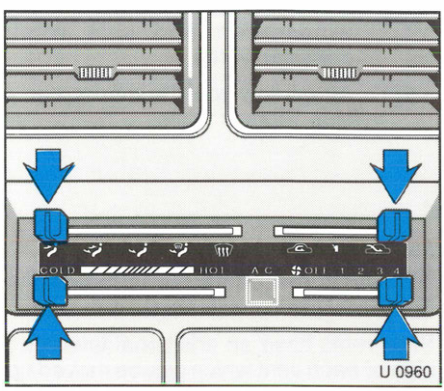


Cooling

- Set the temperature control to COLD
- Set the source to
- Switch on the fan
- Switch on the air conditioner, if fitted.

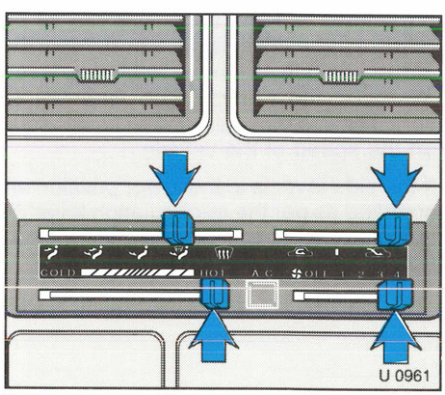
For maximum cooling to the head area, select and open all the vents.

For maximum cooling to the foot area, select the vents.



Normal heating

- Select the required vents.
- Set the fan speed as required.
- Select HOT. The heater uses heat generated from the engine. Therefore hot air is not available until the engine starts to warm up.



DEMISTING AND AIR CONDITIONING

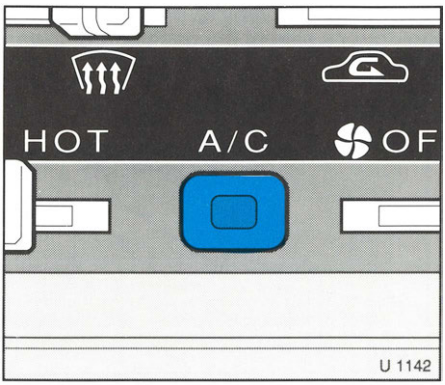
Air conditioning (if fitted)

Air conditioning is only operational when the engine is running and the fan is on.

Press the button to turn the air conditioning off and on. An indicator lights up in the button when the air conditioner is in use.

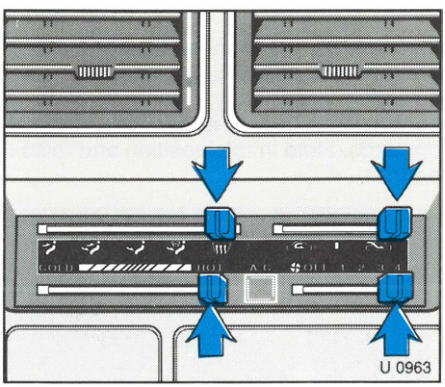
To conserve fuel, turn off the air conditioner when not in use.

To lubricate the seals of the system, the air conditioner should be switched on for 10 minutes every week, even in winter.



Window demisting

- Set the temperature to HOT.
- Select
- Set the fan to speed 4.
- Switch on the air conditioner, if fitted.
- Switch on the rear window demister.

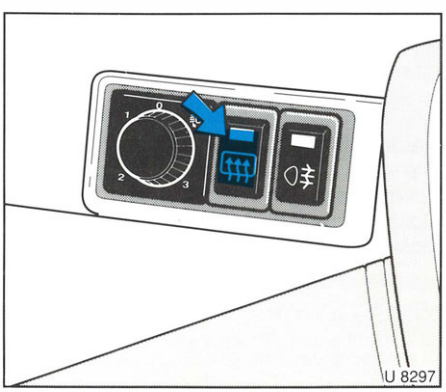


Rear window demister switch

Press the switch to turn on the rear demister on and off. A yellow indicator in the switch will glow when the rear demister is operating.

It is recommended that the demister be turned off as soon as the rear window is clear.

The rear demister will only operate when the ignition is in the ON position.



Notes

CHAPTER 2

Locks

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2-2 Door locks
2-2 Glovebox lock
2-3 Tailgate lock
2-4 Ignition lock

KEYS & LOCKS

Key

This key operates all locks and ignition. Make a note of the key and keep the key number and the spare key in a safe place, *not in the vehicle.*

Door locks

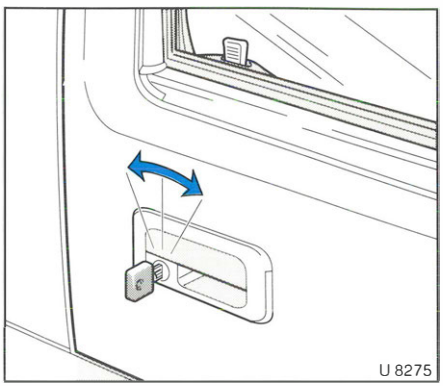
Your vehicle is fitted with central locking for the front doors, central locking does not include the tailgate.

Doors are locked when the lock button is down and unlocked when the lock button is up.

To lock or unlock both doors, depress or raise the drivers door lock button *or* turn the key in the driver's door lock.

Operating the passenger's lock (button or key) will not lock or unlock the driver's lock.

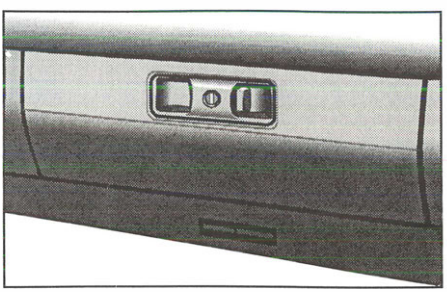
If the lock button on the driver's door is depressed when the driver's door is open, it will spring up when the door is closed, thus preventing the driver from being inadvertently locked out. The button will not, however, spring up if the door handle is raised when the door is being closed.



Glovebox

To lock, insert the key, turn it 90 degrees clockwise and then withdraw. To unlock, insert the key and rotate anti-clockwise.

To open, squeeze the button, or turn the key. To close, push lid firmly back into place.



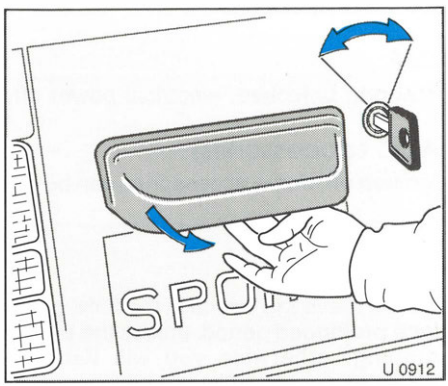
LOCKS

Tailgate

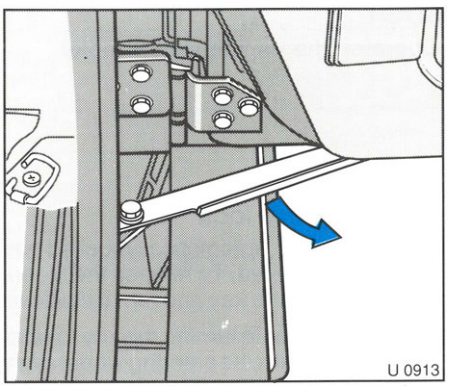
CAUTION: To prevent dangerous exhaust fumes entering the vehicle the tailgate should be closed when the engine is running. However, if it is necessary to leave the tailgate open while transporting bulky cargo, all windows must be closed to avoid vacuum build-up; switch heater controls to "fresh" and set fan to highest speed.

Insert the key and turn clockwise to lock or anti-clockwise to unlock.

Open the tailgate by pulling the handle above the number plate.



When the tailgate is fully open, a stay bar automatically props the tailgate open. To close the tailgate, first push the tailgate further in the opening direction and then pull the stay bar towards you to release the stay bar and close the tailgate.



CHAPTER 3

BODY FEATURES

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3-12 Park brake
3-12 Interior lights

WINDOWS

Front windows

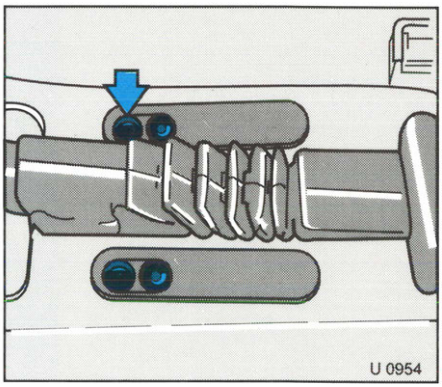
The windows are operated by the rocker switches located in the centre console.

The switches can be operated when the ignition is turned to ACC or ON. Reminder lights in the switches glow when the switches are operational.

To open a window, depress the rear pad of the switch and the relevant window will open to its lowest position. To stop the window fully opening, momentarily depress the front of the switch.

To close a window, depress and hold the front of the switch until the window has fully closed.

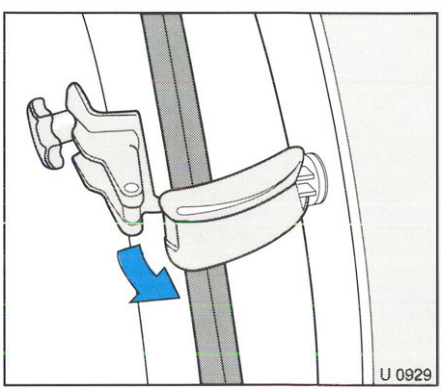
Care should be taken to avoid the risk of injury, particularly with small children, when using electric windows.



Rear windows

Pull the catch handle towards you to unlock the catch, then push outwards to open the window.

When closing, ensure that the catch is fully locked backwards.

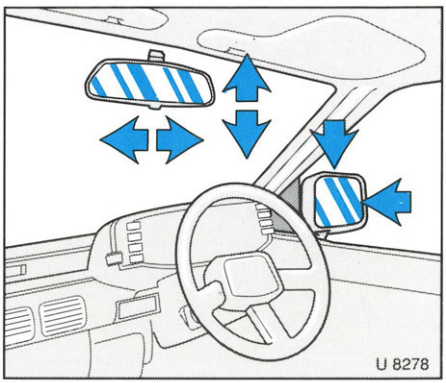


MIRRORS

Mirrors

Correctly adjust interior and exterior mirrors.

Move the lever on the lower edge of the interior mirror to reduce dazzle at night.

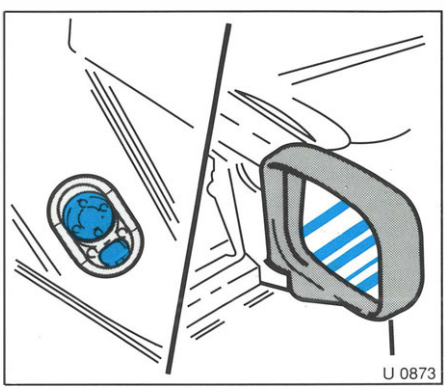


The exterior mirror is adjusted using the switches on the driver's door handle.

Rock the smaller switch to *left* or *right* mirror.

Press the edge of the round switch in the direction you wish the mirror to move. The mirror can move up, down, left or right.

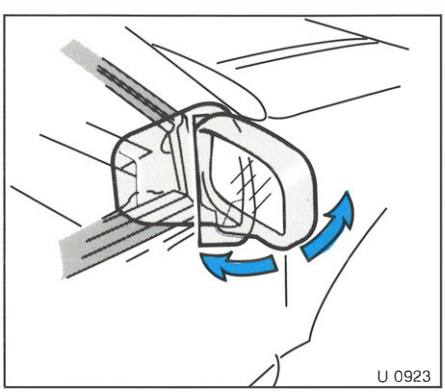
Mirror heating is switched on by depressing the button below the round switch. Heating is indicated by the yellow indicator light.



Fold back

The exterior mirrors can be folded forwards or rearwards.

When driving off road it is recommended that the mirror heads be folded inwards, flush with the door glass. Remember, however, to fold them to the outwards position for normal driving.

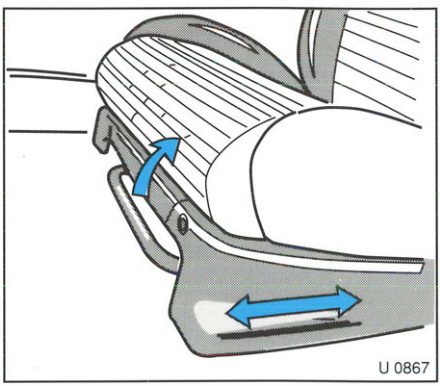


FRONT SEATS

Forward and rearward

Lift up the bar at the front of the seat, then slide the seat forwards or backwards. Release the bar. Try to move the seat back and forth to check that the catch is fully engaged.

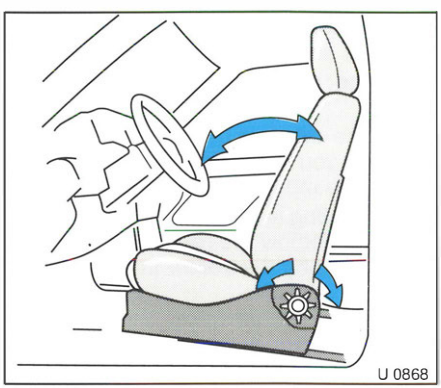
Never adjust the driver's seat when the vehicle is moving, as the seat could move suddenly, causing the driver to lose control.



Reclining backrest

Turn the large toothed wheel on the door side of the seat. The backrest will move in the same direction as the top of the wheel.

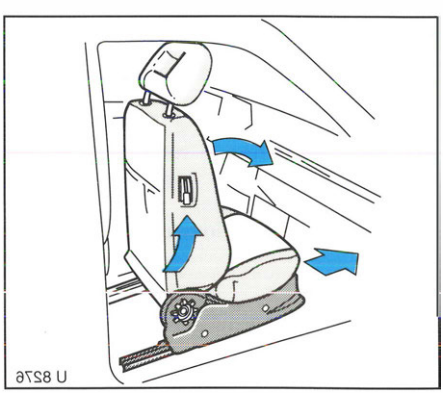
CAUTION: To avoid reducing the effectiveness of seat belts, seat back rests should only be semi-reclined when the vehicle is moving. The fully reclined position should only be used when the vehicle is stationary.



Flip forward

For entry to the rear seats pull up the lever illustrated, then move the front seat forward and fold the backrest forward and down.

To reposition the seat, push the top of backrest fully rearwards until seat locks in the normal position.



SEATS

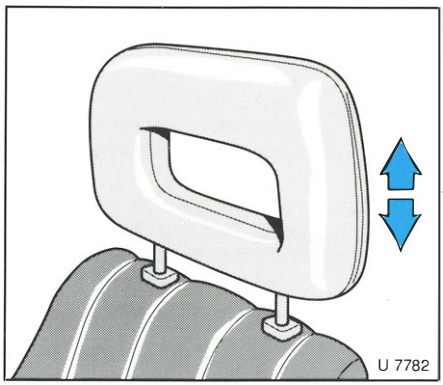
Head restraints, adjusting

This safety feature is not intended as a headrest. It is provided for the reduction of whiplash neck movement in an accident.

To adjust the height of the head restraint, pull up or push down, as required.

The upper edge of the head restraint should be approximately at eye level - not at neck level.

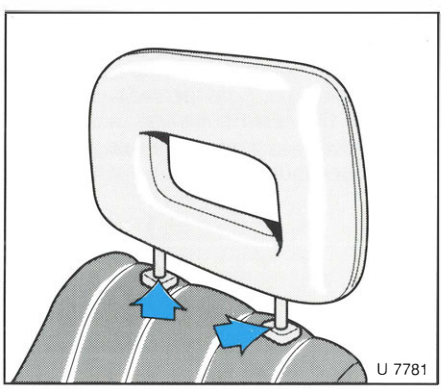
The angle of the head restraint can be adjusted on some models. Grasp the head restraint and tilt forwards or backwards as required.



Head restraints, removing

To remove head restrains, release both springs.

You should not drive the vehicle with the head restraints removed, as these reduce whip lash in an accident.

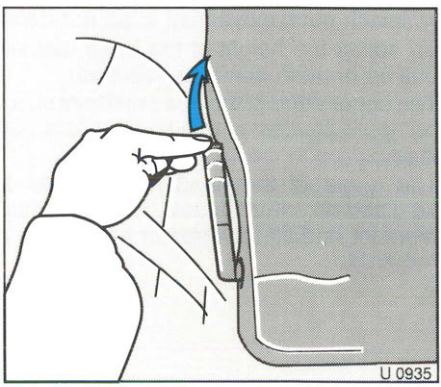


REAR SEATS

CAUTION: To avoid injury from passing vehicles, always avoid standing on the right hand side of the vehicle (if the vehicle is parked at the kerb) when converting the rear seat.

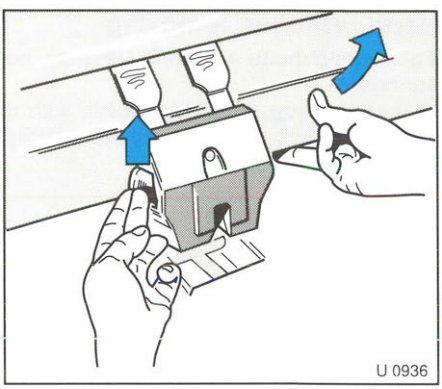
The load compartment may be enlarged by folding the bench seat up behind the front seats.

A release lever is located on both sides of the seat backrest. Pull one of the levers and fold the backrest down onto the cushion.



The seat is locked to the floor at the rear of the seat.

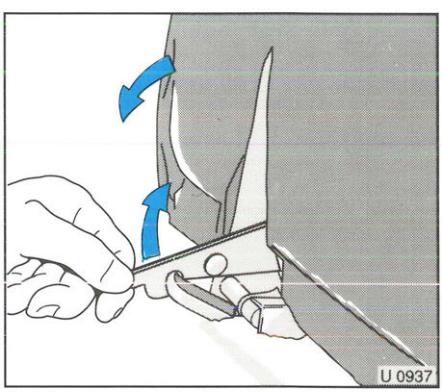
Lift the lever on the left side of the lock to release the seat. Fold the seat assembly up behind the front seats where it is automatically locked in the upright position by a floor-mounted retaining latch.



To reposition the seat, release the seat retaining latch and lower the seat onto the floor lock. Press firmly downwards until it audibly locks.

Return the backrest to its original position.

Ensure seat latches "click" into place and the seats are firmly locked in position. Ensure seat belts are free.



SEAT BELTS

Retractor belts

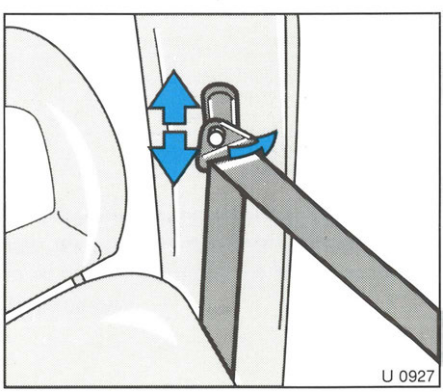
To fasten, pull the metal tongue across your body and clip into the buckle. When the metal tongue has locked safely into place you will hear a "click". After fastening, settle the belt at the hip, go across to the buckle, then up under the sash. Any extra belt length will retract automatically.

The lap section should be worn as low as possible on your hips, not on your waist. Make sure the belt is free from twists and is fitting firmly.

The "emergency-locking retractor belt" allows you to move while the vehicle is travelling normally but will lock immediately on fast braking, impact with a solid object or any quick movement by the wearer.

To undo the belt, press the release button on the buckle and allow the belt to retract. Check that it fully retracts without twisting or turning.

Front seat belt height adjust



- Do not adjust while driving.
- Push the button in and slide the belt guide up or down.
- Release belt guide at required position and ensure belt guide has clicked into position.
- Short people should select a low belt guide position, tall people a higher one. This will ensure, for both safety and comfort, that the webbing of the seat belt fits on the shoulder.

SEAT BELTS & RESTRAINTS

WARNING:

Seat belts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided.

Seat belts should be adjusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.

Care should be taken to avoid contamination of the webbing with polishes, oil and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated or damaged.

It is essential to replace the entire assembly after it has been worn in a severe impact, even if damage to the assembly is not obvious.

Belts should not be worn with straps twisted.

Each seat belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap.

No modification or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.

The positioning of the tongue restrictor must never interfere with, or stop, the belt from fully retracting.

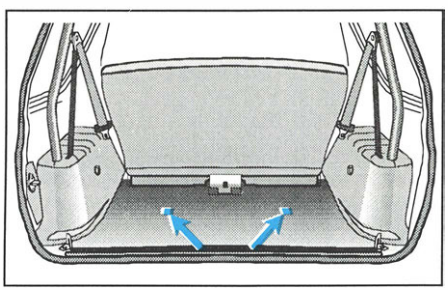
WARNING:

Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts or harnesses or for attaching other items or equipment to the vehicle.

CHILD RESTRAINTS

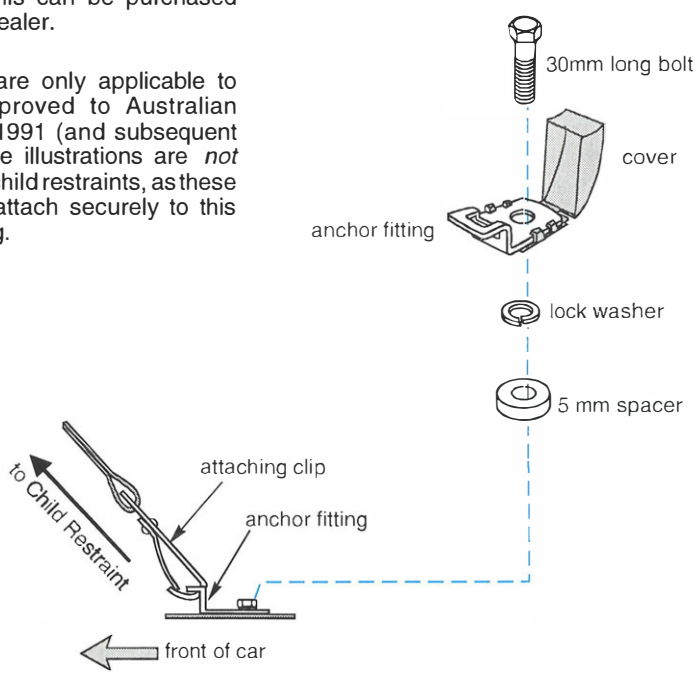
- Children should be restrained at all times when travelling in a vehicle.
- Infants unable to sit up by themselves should be carried in an approved infant restraint. Check with your local Infant Welfare Centre for availability. Always ensure that the seat belt fits firmly around the infant restraint.
- Children able to sit up should be restrained with regular seat belts or an approved child seat.
- If a child can't see out of the window, don't raise him/her by means of an ordinary cushion. It will not stay in place in a crash and the child can slip out of the straps and become entangled.

Your vehicle is fitted with two anchorage points for child restraints, as shown.



One anchor fitting is already installed in your vehicle in one of the anchorage points.

The illustration at right shows how to install an additional anchor fitting into the other anchorage point. This can be purchased from your Holden Dealer.

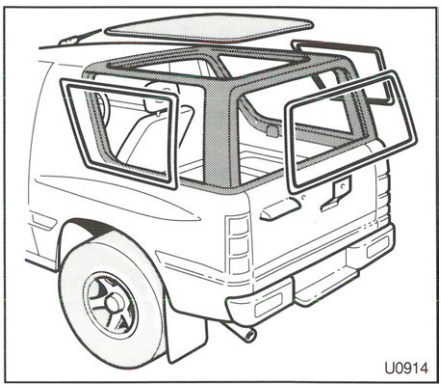


These illustrations are only applicable to child restraints approved to Australian Standard AS 1754-1991 (and subsequent amendments). These illustrations are *not* applicable to earlier child restraints, as these restraints may not attach securely to this type of anchor fitting.

REMOVABLE ROOF AND WINDOWS

The vehicle is equipped with a detachable roof panel, removable rear side windows and removable tailgate window.

Always ensure that when driving the vehicle with the roof and/or windows removed that passengers do not lean out or stand up in the vehicle. They should be seated and wearing seat belts at all times.



Roof panel

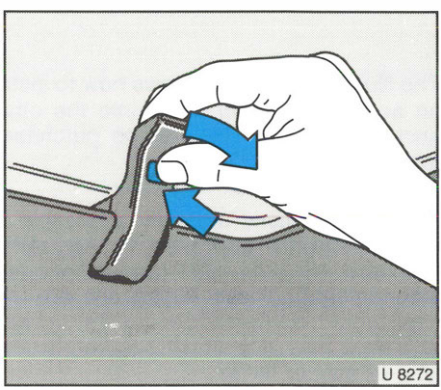
The roof panel is held in position by four catches inside the vehicle. The front two catches are equipped with safety retainers.

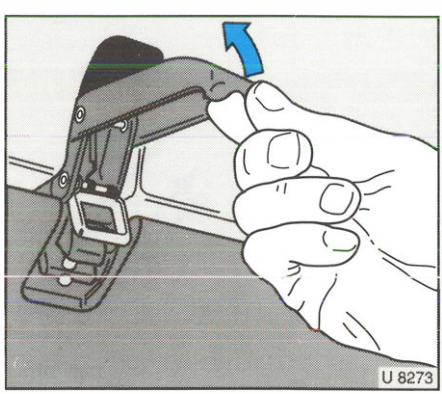
To undo the catches, press the red button and pull the catches downwards.

To lift off the roof, pull both front catches inwards simultaneously and lift the roof up and off.

To install the roof panel, align the catches on the roof panel with the guides on the hard top. Engage the bottom of each catch with the guide and press in the top of the catch until it clicks. Should the catch not properly engage, depress the button on the catch to release the mechanism, and repeat the procedure.

All catches must be fully engaged when the roof is on, before driving off.





REMOVABLE ROOF AND WINDOWS

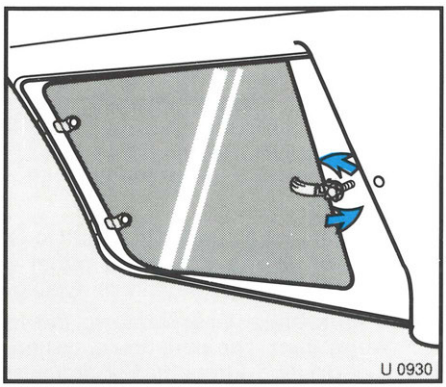
Side rear windows

To open, pull the catch handle and engage in the open position by pivoting the handle outwards.

When closing, ensure that the catch is fully folded down to lock the window in the aperture.

To remove the side window, engage the catch in its fully open position. Support the window, remove the bolt securing the catch to the body and carefully disengage the hinges from their locating slots in the front edge of the aperture, ensuring the aperture seal is not detached from the flange.

When installing the window, locate the hinges in their slots and ensure glass seats correctly on the aperture seal. Fully tighten the catch securing the bolt by hand pressure only.

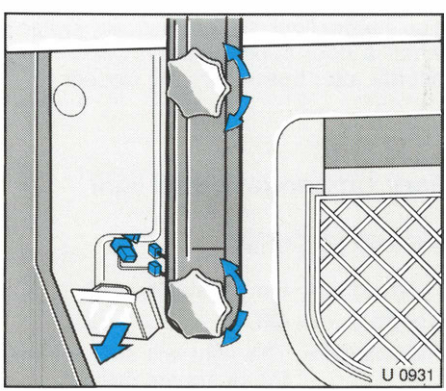


Tailgate window

The tailgate window supports are attached to the tailgate by four hand bolts. Before removing the window support bolts, disconnect the wiper motor wiring. The connectors are located behind a trim cover, as shown in the illustration.

When installing the window, ensure that the tailgate glass assembly is firmly seated at both side on the tailgate waist seal and that glass face and rubber face are flush (i.e. no gaps horizontally and flush vertically). Also ensure that the wiring for the wipers has been threaded through the cut out so that the wiring is not squashed. Fully hand-tighten bolts and reconnect wiper wiring.

The tailgate and tailgate window should be closed while driving. Exhaust gases can enter the vehicle.

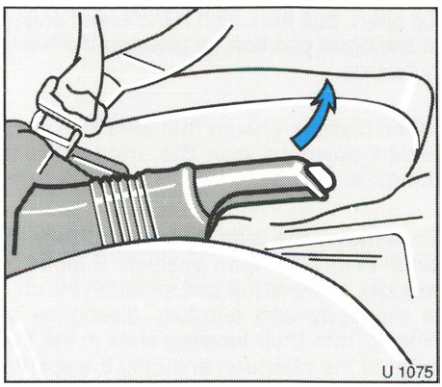


PARK BRAKE, INTERIOR LIGHTS

Park brake

The park brake lever is between the front seats.

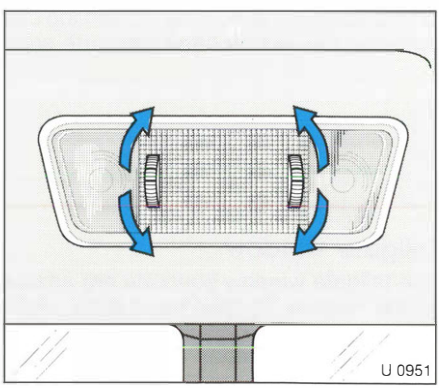
- To apply, pull the lever straight up, without pressing the release button. To release, pull the lever slightly upwards, push in the release button on the end of the lever and whilst depressed, lower the lever all the way down.
- When the ignition switch is turned to ON, a symbol on the instrument panel will indicate that the park brake is applied.
- The park brake is separate to the foot brake system. The park brake system is not used during normal braking processes and there is no self cleaning. Therefore, from time to time, drive slowly for approx. 300 metres with the park brake applied. Normally, however, the park brake should NOT be applied while driving.



Reading lights

When the ignition is switched on:

- Rocker switch to rear = On
- Rocker switch to front = Off



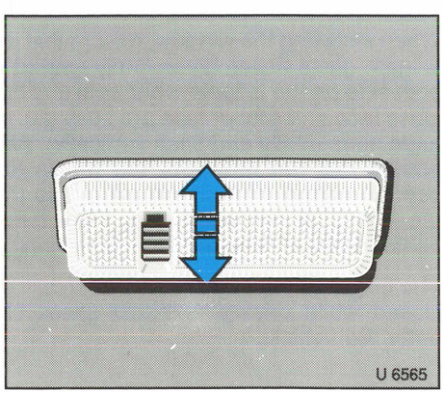
Front interior (dome) light

The interior light will automatically switch on when a door is opened and will switch off shortly after both doors are closed.

Rear passenger dome light

Slide switch on light:

Forward = On constantly
Centre = Off
Rearward = The light will stay on when the doors are open.



Notes

SAFETY

Before entering the vehicle

1. Check that windows, mirrors and lights are clean.
2. Visually check tyre inflation (check with a pressure gauge each week).
3. If you intend to reverse, check that the area behind your vehicle is clear.

Before driving off

1. Be sure that all doors are closed and secured.
2. Position your seat for comfortable driving.
3. Adjust rear vision mirrors.
4. FASTEN SEAT BELTS.
5. Check that all the warning indicators light up when you turn the key to start the engine.

Parking

1. Apply the park brake.
2. Place manual transmissions in REVERSE or FIRST gear.
3. Switch off all exterior lights.
3. Shut all windows.
4. Turn ignition key to LOCK and remove the key.
5. Lock all doors.

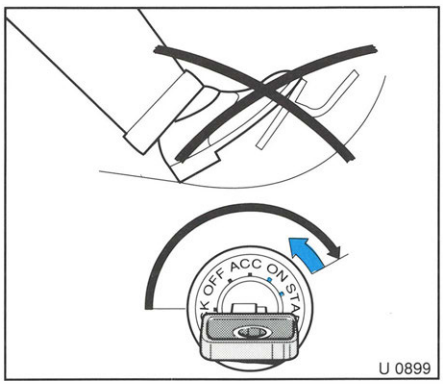
CAUTION:

Be careful where you park or drive. As with any vehicle, do not park or operate this vehicle in areas where combustible materials such as dry grass or leaves can come in contact with a hot exhaust system.

Never leave the engine running in a closed garage or underground car park.

ENGINE STARTING AND STOPPING

Starting the engine



1. Ensure the park brake is firmly applied and release only after you have started the engine and are ready to drive off.

2. Depress the clutch pedal and shift the gear lever to Neutral position. The clutch pedal can now be released.

3. Start the engine as outlined below, with your foot off the accelerator.

For cold or hot starting the procedure is the same. Simply turn the key to the start position and release when the engine starts.

YOU DO NOT HAVE TO DEPRESS THE ACCELERATOR PEDAL PRIOR TO, OR DURING, STARTING. DEPRESSING THE ACCELERATOR PEDAL WILL ONLY INCREASE CRANKING TIME AND WILL NOT HELP THE ENGINE TO START.

You should not subject the engine to high load conditions such as full acceleration or high speeds until it has completely warmed up. You may otherwise cause premature engine wear or engine damage.

Stopping the engine

If the engine temperature is very high, e.g. after driving in mountainous terrain or after a long hard run, allow the engine to idle for approximately two minutes so as to prevent a build up of heat.

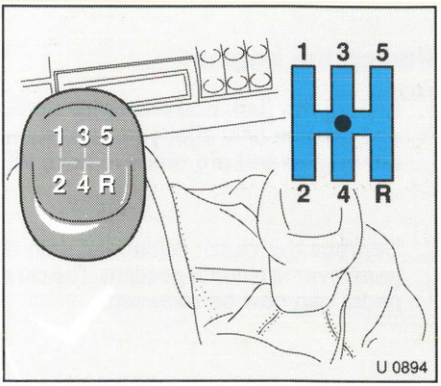
MANUAL TRANSMISSION

The transmission has 5 forward gears and a reverse gear. The shift pattern illustrated, is also found on the top of the gear shift lever.

The • mark in the illustration represents neutral position.

When selecting 5th gear you must shift the gear lever sideways against spring pressure in order to pass into the gear.

When selecting REVERSE gear you must wait at least 3 seconds after depressing the clutch pedal before shifting the gear lever sideways (against spring pressure) into the reverse gear position.



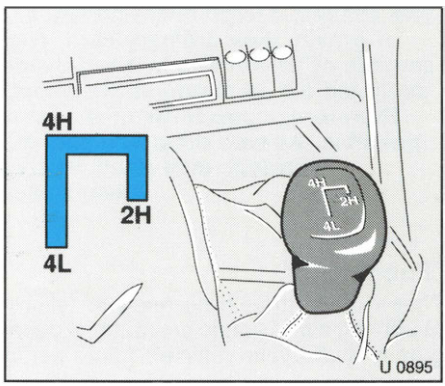
Operating notes

- When shifting from one gear to another, be sure to depress the clutch pedal fully to avoid clashing and possible chipping of the transmission gears.
- Never attempt to engage reverse gear until the vehicle has completely stopped. A pause (of three seconds) between depressing the clutch pedal and moving into reverse gear is desirable to allow all the rotating components to stop and avoid gear clashing. Whenever reverse gear is selected with the ignition ON, the reverse lights will operate.
- If the gear does not engage easily; with the lever in neutral, release the clutch pedal and depress again, then repeat the gear selection.
- Shift the gear lever with a moderate effort to allow time for the transmission synchromesh to work properly.
- To avoid damage to the clutch, do not drive with your foot resting on the clutch pedal.
- When stopped on an incline do not hold the vehicle by slipping the clutch. Use the park brake or foot brake.
- When climbing steep grades, change down to a lower gear before the engine starts to labour. To maintain safe speeds on a steep downgrade and to reduce brake wear and overheating, shift into a lower gear before starting the descent.
- Do not over speed the engine when shifting down to a lowest gear.
- 4th gear provides direct drive and 5th gear, overdrive.

FOUR WHEEL DRIVE

Selection of four wheel drive or two wheel drive is made by moving the transfer lever inside the vehicle.

Transfer lever



2H Two wheel drive

4H Four wheel drive, high range

4L Four wheel drive, low range

There is no neutral position. Therefore, the lever must always be placed fully into one of the above drive positions.

The transfer lever can be shifted without depressing the clutch.

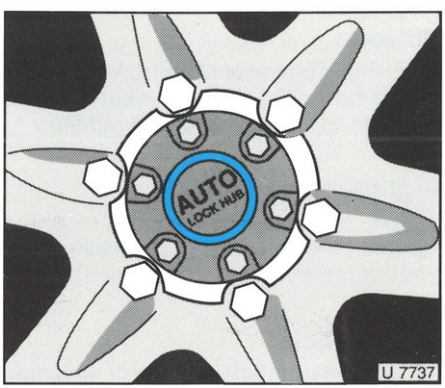
Never move the lever from 2H to 4H with the vehicle in motion.

The vehicle must be stationary when shifting from 4H to 4L, or from 4L to 4H.

For normal road use, the transfer lever should be in the 2H position.

The 4H and 4L positions should only be used when conditions make it essential, e.g. driving in mud, sand or snow; two-wheel drive (2H) should be re-engaged at the earliest opportunity.

Automatic locking hubs



Your vehicle is fitted with automatic locking hubs, which means that you do not have to get out of the vehicle to engage four-wheel drive.

To engage four-wheel drive, stop the vehicle and shift the transfer lever to 4H or 4L. When the vehicle is moved again the hubs will lock automatically. This happens after approximately one metre of travel.

Note that once the hubs have locked they will stay locked even if the transfer lever is shifted to 2H while the vehicle travels in the same direction*.

To unlock the hubs, stop the vehicle and shift the transfer lever to 2H, then drive the vehicle slowly in the opposite direction* to which it had previously been going for approximately one metre.

Note: When the vehicle is in 4H or 4L, the automatic locking hubs will momentarily unlock, then lock again when the vehicle changes direction*.

As it takes one metre of driving to engage four-wheel drive it is recommended that four-wheel drive be selected just before it is required, and not waiting until after getting bogged.

** direction, meaning forwards or rearwards.*

DRIVING PRECAUTIONS

Frontera handling

The specific design characteristics of the Frontera give them a higher centre of gravity than ordinary cars. Their high ground clearance makes them capable of performing in a wide variety of off-road applications. They are not designed for cornering at the same speeds as conventional passenger cars. Therefore, sharp turns or abrupt manoeuvres should be avoided if at all possible. As with other vehicles of this type, failure to operate this vehicle correctly may result in loss of control or vehicle roll over.
Always use your seat belts.

"Running in"

These days, there's no need to follow a formal running-in schedule. However, by observing a few simple precautions during the **first 1,000 kilometres** of driving you will greatly assist your vehicle's future performance and economy.

Drive your vehicle at various speeds. Do not use full acceleration. Never allow the engine to labour.

Make good use of all gears. Depress the accelerator pedal a maximum of around three quarters of the available pedal travel in all gears and drive ranges.

Do not drive faster than three quarters of the maximum speed.

This information concerns the engine and parts of the power train, e.g. the final drive.

Off road

Following a period of off road driving, particularly in wet weather, the front of the vehicle should be hosed down to clear any accumulation of mud. In particular pay specific attention to both sides of the radiator.

Engine misfire warning

Reduce speed and do not tow a caravan or trailer - until the misfiring is corrected at the nearest Holden Dealer. Otherwise, the catalytic converter and exhaust system may overheat, resulting in vehicle damage.

Loose articles

Do not leave loose articles or luggage in the passenger compartment. Whenever possible, stow articles in the luggage area.

Power steering

The "power assisted" steering, fitted to your vehicle, has been designed to reduce steering effort. Care should be taken not to hold a turning force on the steering wheel when stationary (i.e. when waiting before turning a corner, etc.) as this creates high operating temperatures and pressures within the system.

If power assistance for the steering isn't working, due to the engine stalling etc., the vehicle can still be steered. However, due to the much greater effort required to steer, it is recommended that you have the problem fixed promptly.

DRIVING PRECAUTIONS

Brakes

- The "power assisted" brakes, fitted to your vehicle, use vacuum from the engine when it is running. Therefore, never let the vehicle run down hills with the engine off, or coast after switching the engine off.
- Your seat should be positioned so that you can reach the brake pedal easily. Nothing should be under the brake pedal which could limit pedal travel, for-instance, poorly fitting floor mats.
- Consistent, heavy use will shorten the life of the brake pads.
- The front and rear disc brakes have built-in wear indicators, which make a high pitched squealing or clicking noise when the pads need replacing. The sound will come and go, or be heard all the time when the wheels are rolling, but may stop when the brake pedal is firmly applied.

In the interest of effectiveness, do not brake unnecessarily hard during the first 200 km after new disc brake pads have been fitted.

Tyre grip

When driving on wet or slushy roads, it is possible for a wedge of water to build up between the tyre and road surface. This phenomenon, known as hydroplaning, may cause partial or complete loss of grip, which affects steering and braking. To reduce the possibility of hydroplaning:

- Reduce speeds during rainstorms.
- Replace tyres when tread wear indicators are visible.
- Check that tyres are properly inflated.

Snow chains

Snow chains may only be used on the rear (drive) wheels.

Snow chains may only be used at speeds up to 50 km/h.

When driving on roads that are free of snow, they should only be used for brief periods, as they will wear quickly and may snap.

The part of the snow chain that covers the tyre tread should not be thicker than 13 mm. The part of the snow chain that wraps around the side of the tyre should not be thicker than 15 mm. (including the chain clasp). The use of thicker chains may cause damage to the body of the vehicle.

Mobile phones and CB radios

Mobile phones and CB radio equipment, which use an integrated antenna, may temporarily affect the vehicle's electronics (permanent damage is unlikely) when used inside the vehicle, due to the interference created when transmitting.

Therefore, mobile phones and CB equipment that use an antenna fitted to the outside of the vehicle should be used whenever possible.

If phones or CBs with an integrated antenna *must* be used inside the vehicle, care should be taken not to operate near the dashboard area.

Notes

CHAPTER 5

Fuel

Page

5-2 Carbon monoxide caution
5-3 Petrol filling
5-3 Fuel Tank capacities
5-4 Emission Control
5-5 Reducing fuel consumption

PETROL

EXHAUST WARNING - CARBON MONOXIDE POISONING

Exhaust gases contain carbon monoxide, a dangerous gas, which can cause unconsciousness and even death to both humans and animals.

You could inhale the gases if the exhaust system on your vehicle is faulty.

To protect against exhaust gases entering the vehicle, the exhaust system and body should be inspected:

- each time the vehicle is serviced

- whenever a change is noticed in the sound of the exhaust system

- whenever the exhaust system, underbody or rear of the vehicle is damaged.

Take the vehicle to your Holden Dealer if you think your vehicle needs inspecting for any of the above reasons.

DO NOT SIT (OR LEAVE THE CHILDREN OR PETS) IN A PARKED VEHICLE FOR ANY EXTENDED PERIOD OF TIME WITH THE ENGINE RUNNING. DO NOT RUN THE ENGINE IN AN ENCLOSED AREA (SUCH AS THE GARAGE) ANY LONGER THAN IS NEEDED TO MOVE THE VEHICLE.

Driving with the tailgate open is not recommended. If you *must* travel with the tailgate open, close all windows, ensure that the heater controls are set to outside (rather than re-circulate) with air directed to the face and the fan on the highest speed. Do not exceed 50 km/h unless necessary.

PETROL CAUTION:

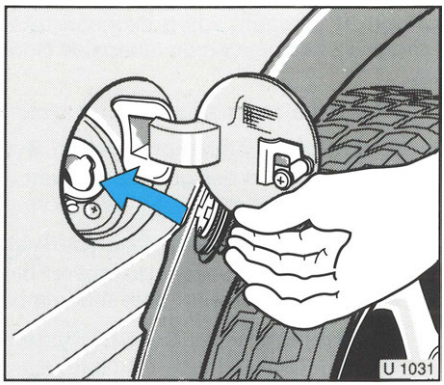
- **Petrol is extremely flammable and highly explosive.**
- **Always turn off the engine when refuelling.**
- **Do not smoke or allow open flames or sparks near the vehicle when refuelling.**
- **If petrol fumes are smelt while driving, the cause should be found and corrected without delay.**

PETROL

The petrol filler is located on the rear right side of the vehicle.

Insert the key in the petrol flap and turn anti-clockwise to unlock and open.

The petrol cap (under the petrol flap) is a screw-on type. Always replace the cap after refilling.



Tank capacity = 80 litres

Fuel tanks should not be allowed to become empty.

Use UNLEADED PETROL of 91 octane rating, or higher.

High octane unleaded petrol ("Premium" etc.) may be used, but is not required by your vehicle.

The use of any other fuel will seriously damage the engine of your vehicle and may void your Warranty. Only clean petrol of good quality should be used.

Petrol tanks should always be filled at the intermediate or fast fill rate. Don't add any more petrol after the petrol filler first clicks off or petrol blows back - as this allows room for the petrol to expand inside the tank.

It is only permissible to "trickle fill" petrol tanks when the vehicle is to be driven for more than 50 km immediately after the tank is filled. However, this is not recommended on days over 30°C.

Wipe off any overflowing petrol immediately; spray or splash with water.

EMISSION CONTROL

Your vehicle is fitted with emission control systems which are designed to reduce the amount of hydrocarbons (HC), carbon monoxide (CO), and oxides of nitrogen (NOx) that are emitted from the engine and fuel system into the atmosphere. Hydrocarbons and oxides of nitrogen, when exposed to sunlight under certain conditions can produce smog. In addition, carbon monoxide is toxic when it becomes highly concentrated in the air.

The three major emission control systems fitted to your vehicle are:

1. **Evaporative Emission Control System**
   This system is designed to prevent the escape of fuel vapour from the fuel system and recycle them through the normal combustion process.
2. **Crankcase Emission Control System**
   This system is designed to prevent blow-by gases from escaping into the atmosphere and recycle them through the combustion process.
3. **Exhaust Emission Control System**
   The various components of this system operate collectively to limit HC, CO and NOx emissions in the exhaust gas. The exhaust Emission Control System is comprised of components including electronic control of spark, fuel and idle speed. In addition, Australian vehicles have a catalytic converter and closed loop mixture control system.

For detailed information on the operation, servicing and repair procedures for these systems, refer to your vehicle's service manual and/or the emission label inside the engine compartment (on the passenger side strut tower) of your vehicle.

Owner responsibility

Vehicles sold and serviced within Australia have been designed to comply with Australian Design Rules and State Regulation emission requirements.

The engine or exhaust system of the vehicle must NOT be modified in any way. Any change to the design may increase the emissions or otherwise defeat the intent of the regulations.

Any person who removes, modifies or hinders any part of the emission control system will be contravening regulations. It is also illegal to drive a vehicle modified in this way.

First drive

When the vehicle is driven for the first time, wax and oil on the exhaust system may evaporate, producing smoke-like emissions that should not be inhaled. Allow wax and oil to evaporate while the vehicle is in the open air.

Maintenance requirements

To ensure continuing compliance with the regulations you must maintain your vehicle's emission control system as per your vehicle's service manual, at the frequency shown in the Maintenance Schedule in chapter 12.

It is recommended that the necessary servicing be performed by an authorised Holden Dealer who has the specialised servicing equipment and trained personnel available to ensure that the adjustments and services specified are carried out.

REDUCING FUEL CONSUMPTION

Engine

Maintain the engine in peak mechanical condition by having it serviced regularly in accordance the Maintenance Schedule starting on page 12-4. This will ensure items such as the spark plugs and air cleaner are maintained for minimum fuel usage and peak engine performance.

Tyre pressure

Keep the tyres at the recommended pressures. Under-inflated tyres creates extra rolling resistance and wastes fuel, refer page 7-8.

Incorrect tyre pressures can also cause uneven and premature tyre wear.

Wheel alignment

Maintain correct front wheel alignment. Incorrect alignment makes the front wheels drag, wastes fuel and causes uneven and premature tyre wear.

Warm ups and idling

Avoid long engine warm ups. They are unnecessary and waste fuel. An engine takes approximately five minutes to reach its efficient operating temperature and it does this most effectively when driving.

You should also avoid long engine idling. If your have to wait for more than a couple of minutes turn off the engine to conserve fuel.

Accelerating, driving and braking

Accelerate gently - avoid rapid starts, sudden bursts of speed and full throttle acceleration - they're certain fuel wasters.

Drive the vehicle at steady speeds where possible (after run-in). It is desirable to reach top gear as soon as possible, but under no circumstances should you force the engine to labour in top gear.

Riding the brake

Do not rest your foot on the brake pedal when you do not intend to brake, as this can overheat the brakes, increase brake pad wear, damage the brakes and waste fuel.

Air conditioning

Turn off the air conditioning, when not required. However, once every two weeks, with the engine running, switch the air conditioner on for 5 to 10 minutes, even in Winter, to lubricate seals.

CHAPTER 6

Emergencies

Page

6-2 Accident
6-3 Medical assistance
6-4 Flat tyre
6-7 Towing a disabled vehicle
6-8 Engine overheating
6-10 Flat battery
6-12 Fuses
6-14 Bulb replacement

Your new vehicle is covered for 3 years by 24 hour Roadside Service, refer page 9-10.

ACCIDENTS

All drivers are advised to learn what to do at the scene of an accident, particularly where people are injured. Injured people can choke to death if their air passages are not cleared, they can bleed to death unless the bleeding is stopped, they may require mouth-to mouth resuscitation or may have to be moved, even though badly injured. It is important that you understand how to avoid further damaging an injured neck or back or other broken limbs.

The following notes may help.

Accident - being involved

Stop immediately and remember to turn off the engine and apply the park brake.

Remember that time is vital. Remain calm and alert. Think quickly and clearly.

Give all possible assistance to all injured persons (see following page).

Send for police and ambulance if anyone has been injured. Give information as accurately as possible: the exact location, the number of injured people and a brief report on the overall situation.

Perhaps take charge of the situation.

Warn all other traffic approaching the scene. Turn off ignition switches. Stop any smoking near spilt petrol. In darkness, try and light up the area to warn others.

Clear the road of accident debris.

Exchange your name, address, vehicle registration, owner's name and address with the other parties involved in the accident.

If damage to property only has occurred, report the facts to the owner of the damaged property or to his/her representative, to any police present at the scene or to the nearest Police Station.

Try to note all important facts because such details may be important if needed later.

Accident - being a witness

If you witness a road accident or it becomes your task to stop and help:

- Keep in mind that an observant witness can prove most helpful. Some day you yourself might be very glad of help from a witness.
- DO NOT stop at the scene of an accident just to be a spectator. If other people are already in attendance and giving assistance, you should stop only if you can contribute assistance.
- Give what assistance you can to any injured persons (see following page).
- Follow most of the steps suggested above. Perhaps you may have to take charge of the accident situation.

ACCIDENTS

Medical assistance

Keep calm and think clearly. Your experience may not be much but do your best. Don't just stand by and let an injured person die.

- Look after the unconscious person first. Check for breathing. If no breathing, then check if air passages are clear, i.e. nose and mouth. Use your fingers to clear air passages if necessary. If the air way is clear then mouth-to-mouth resuscitation may be needed at once.

Unconscious people can choke.
Carefully turn to one side.
Tilt the head back slightly.
Wipe out the mouth with your finger to remove blood, vomit, broken teeth or dentures.

- You must be very careful when moving an injured person. It is best not to move at all, except if in danger, as serious and permanent damage can be done to an injured neck or back if not supported during movement. NEVER BEND A NECK OR BACK. KEEP THEM STRAIGHT. All injured limbs require support when an injured person has to be moved.

- Provided it is not dangerous to do so because of other injures, an unconscious person will do best in the position illustrated here.

Lay the person on one side and - if it will not aggravate any injuries
Bend the uppermost knee until the thigh is at right angles to the body.
Bend the uppermost arm and elbow so that the hand lies near the face.
Gently pull the underneath arm so that it rests straight on the ground, free of any body weight.

- Try to stop bleeding by applying direct pressure, using your hand, or by pressing torn flesh together. Use any clean cloth available. Fold cloths to make pads. If necessary press one pad on top of another. Keep pressure around edges of a wound BUT NEVER USE A TOURNIQUET.

- Shock may be treated by reassurance, relieving pain, controlling any bleeding and keeping the injured person warm but not hot. Best not to give any fluids and NEVER ALCOHOL.

- If the injured person is in danger and has to be moved, try and have three or four people help, concentrating on not bending the neck, spine and injured limbs. Keeping the neck and spine straight is most important.

Illustrations reproduced from "The Victorian Road Code" with permission from Road Safety and Traffic Authority of Victoria.

FLAT TYRE

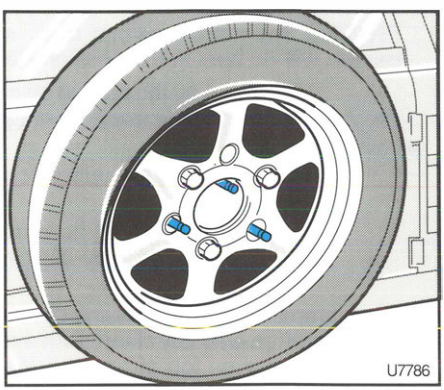
CAUTIONS:

- **Use the jack only for lifting the vehicle when changing wheels.**
- **Never get beneath the vehicle when it is only supported by the jack.**
- **Do not start or run the engine while the vehicle is only supported by the jack.**
- **All passengers should be out of the vehicle when it is being jacked.**
- **Use the jack only at the designated lifting points. Use in other locations can damage the vehicle.**
- **The vehicle should only be jacked on hard, level surfaces.**
- **If using a jack other than the one supplied with the vehicle, refer page 7-11 for lifting positions.**

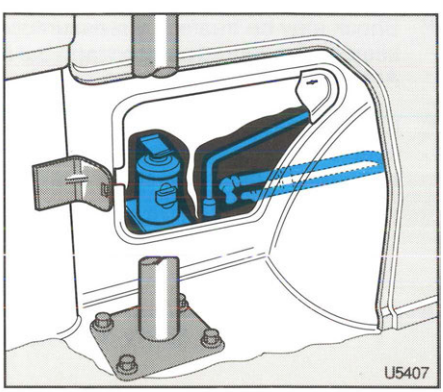
1. Park on a level surface, set the park brake firmly an turn on the hazard flasher.

2. Remove the ignition key and place transmission in REVERSE gear.

3. Remove the spare wheel, which is secured to the rear of the vehicle by three bolts.

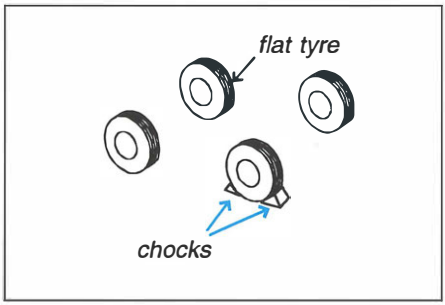


The jack and tools are stored in bags, located behind panels in the left hand side of the load area, which is secured by 3 hand-bolts.

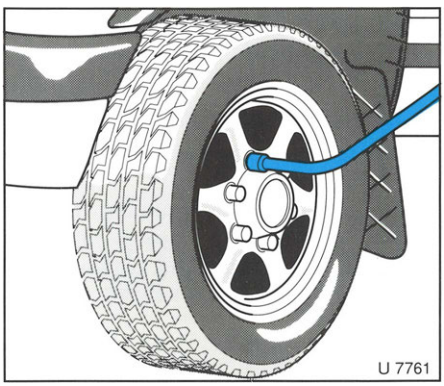


FLAT TYRE

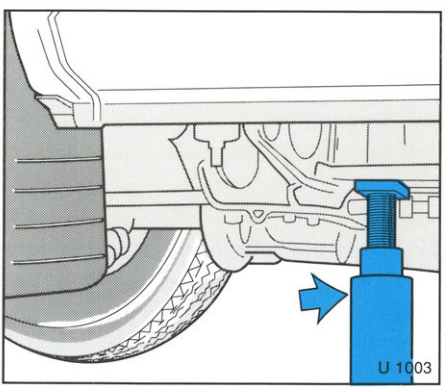
4. Block the wheel diagonally opposite the flat tyre.



5. Loosen, but do not remove, wheel nuts by turning the wheel wrench anti-clockwise.



6. To raise the front of the vehicle, place the lifting pad of the jack in the jacking point located immediately behind the engine rear mounting crossmember.
   Always read the label on the jack.



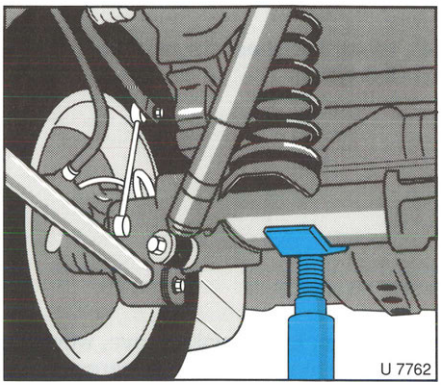
Failure to position the jack as described could cause the vehicle to slip off the jack.

Ensure that the jack is not tilted and that the base is resting squarely on the ground.

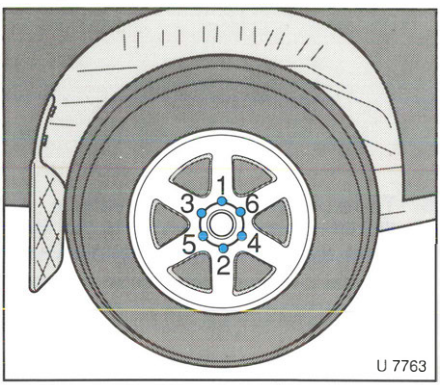
FLAT TYRE

To lift the rear of the vehicle, place the lifting pad of the jack under the rear axle as close as possible to the wheel that is to be replaced.

7. Unfold the jack handle, insert the handle into the jack and rotate the handle to raise the jack.



8. Raise the vehicle until the tyre is clear of the ground.
9. Remove the wheel nuts and place (together) in a dry spot to avoid getting dirt in the threads.
10. Remove the wheel from the vehicle and change it over with the spare.
11. Replace the wheel nuts and tighten by hand. Then, with the wheel wrench, lightly tighten in the sequence shown.



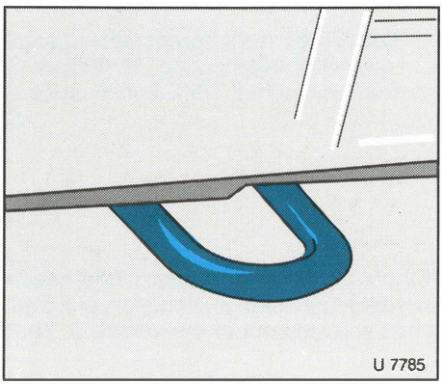
12. Lower the vehicle completely and remove the jack.
13. Fully tighten the wheel nuts with the wheel wrench in the sequence shown above.
14. Stow the spare wheel by resting it on the support pin of the carrier and inserting the bolts. Use the wheel wrench to fully tighten the bolts. A lock pin is also provided to enable the use of a padlock to help secure the wheel against theft. Stow the tools is the rear compartment panels.

CAUTION:
As soon as possible after changing a wheel, you should have the wheel nuts properly tightened.

Wheel nuts should be tightened evenly to the correct torque in the sequence shown, as improperly tightened wheel nuts could eventually allow the wheel to come off while the vehicle is moving!

TOWING A DISABLED VEHICLE

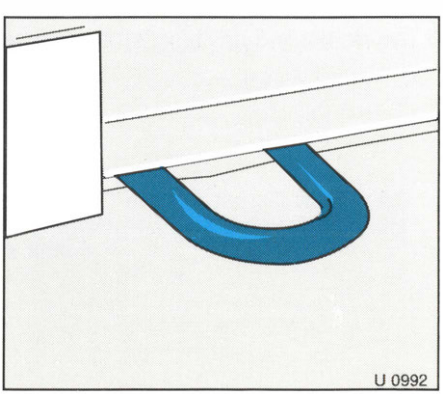
Towing a disabled vehicle



Proper lifting or towing equipment is necessary when lifting or towing the vehicle to prevent damage. Country, State and Local laws must be followed. In an emergency, your vehicle may be towed on all four wheels in the following manner:

- Fit the towing equipment to one of the towing eyes on the front subframe below the front bumper. Do not attach to the bumpers or brackets.
- Place transmission in neutral position , the transfer lever in 2H and release the park brake.
- Switch on the ignition to release the steering column lock and allow the correct operation of windscreen wipers and turn signals.
- For the sake of safety and to prevent damage to the vehicle it is advisable to avoid jerky movements and to drive slowly during towing operations.
- Remember that *power assist* for brakes and power steering will not be available when the engine is off. The brakes and steering will still function, but will take greater effort.
- To prevent exhaust fumes from the towing vehicle entering into the towed vehicle, close the windows and move heating and ventilation controls to "re-circulate" position.
- Vehicles with damaged transmissions must not be towed unless the propeller shaft is removed.
- Only the driver should be in a towed vehicle.

Towing another vehicle



Attach the towing equipment to the rear towing eye of your Frontera.

Drive all slowly and avoid jerky movements.

Carefully follow the cautions above and any additional cautions listed for the vehicle in their Owner's Handbook.

ENGINE OVERHEATING

CAUTION: If the temperature gauge shows overheating, or if you suspect the engine of overheating, immediate action is required. Continued driving EVEN FOR A SHORT TIME could cause a fire, personal injury and/or severe vehicle damage.

If the coolant temperature gauge needle should move to the red section and remain there for more than 30 seconds, pull over to the side of the road. Leave the engine idling while you step out of the vehicle to check that the cooling fan is working.

CAUTION: Do not open the bonnet if you can see or hear steam or water escaping. Wait until no steam or water can be seen or heard before opening the bonnet.

If the fan is working and the temperature gauge is still climbing, then turn the ignition key to LOCK.

Look for leaks at the radiator hoses and connections, heater hoses and connections, radiator and water pump. Take care when checking all these areas as they will probably still be hot.

If you find a major leak or find other problems that may have caused the engine to overheat, do not run the engine until these problems have been corrected.

If you do not find anything wrong then you should check the engine coolant level.

CAUTION: Do not remove the cooling system cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

ENGINE OVERHEATING

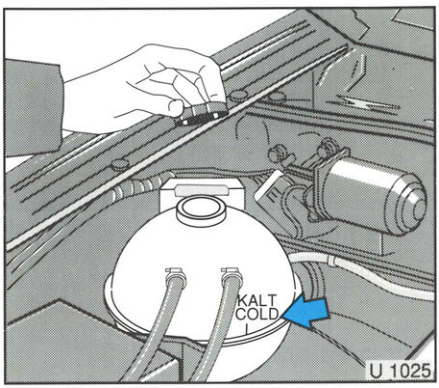
The cooling system is pressurised, so to avoid injury please read all the following instructions before attempting to add fluid.

Without undoing the cap, look at the level of the coolant in the "see-through" coolant bottle.

When the engine is hot the level should be above the COLD/KALT mark.

If the level is at or below the COLD/KALT mark when the engine is hot , water will need to be added as follows:

- Allow the engine to cool a little.
- The bottle is pressurised, so cover the cap with a thick cloth. Undo the cap very slowly so that pressure can escape.
- If water is added it should be clean.
- Top up the coolant bottle **WHILE THE ENGINE IS IDLING**
- Replace the cap and turn as far as it will go.



After taking one or more of the above actions, and once the temperature gauge no longer signals an overheat condition you can resume driving at a reduced speed. Return to normal driving after ten minutes if the temperature gauge does not again show an overheat condition. If overheating occurs again you should have the vehicle attended to, as soon as possible, by a qualified mechanic.

The engine may temporarily operate at high temperature during demanding operating conditions, especially on hot days, including:

- climbing a long hill
- stopping immediately after high speed driving
- idling for long periods in traffic
- towing a heavily laden trailer or caravan.

It may help to turn off the air conditioner in these conditions.

Page 7-3 gives instructions to help protect your cooling system from overheating.

FLAT BATTERY

CAUTION: DO NOT "push start" or "tow start" your vehicle. If unburnt fuel were to reach the catalytic converter and ignite, the converter could overheat or be destroyed by backfire. Therefore, if the battery is flat, you can "jump start", but not "push start" your vehicle.

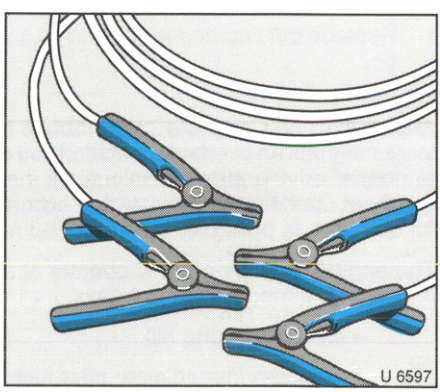
CAUTION: To protect your vehicle's electrical system: never disconnect the battery when the engine is running; never start the engine while the battery is disconnected; never charge the battery while it is still connected to the vehicle; first disconnect the negative cable, then the positive cable; the polarity of the battery, i.e. the connections for the positive and negative cables, must not be interchanged and when reconnecting, first connect the positive cable, then the negative cable.

If after reading the following procedure you are still unsure about "jump starting" we strongly recommend for your safety and that of your vehicle that you leave the starting to a competent mechanic.

Jump starting

CAUTIONS:

Batteries produce explosive gases, contain corrosive acids and supply levels of electrical current high enough to cause burns. Therefore, when working near a battery:



- **Do not use open flames or sparks near the battery.**
- **Do not smoke near a battery.**
- **Wear eye protection such as safety glasses and avoid leaning over the battery.**
- **Battery acid is corrosive. If it gets on your skin, wash with lots of water immediately. If it gets in your eyes you should not only wash with lots of water but should also seek medical help. Battery acid will also damage paint and fabrics if not washed off immediately.**
- **Be sure any batteries that have filler caps are properly filled with fluid.**
- **Remove rings, metal watch bands and other metal jewellery before working around the battery.**
- **Never use a quick charger to start your engine.**

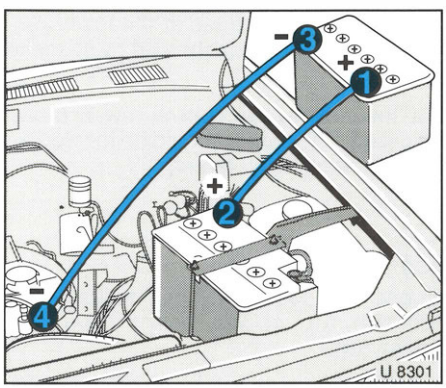
FLAT BATTERY

1. The battery in your vehicle has a negative earth and a 12 volt rating. The battery in the other vehicle **MUST** also have a negative earth and a 12 volt rating.

2. Position the two vehicles so that they are NOT touching, apply the park brakes, put automatic transmission in PARK, manuals in NEUTRAL. Turn ignition to LOCK and switch off all lights and accessories in both vehicles, except the hazard warning flasher or any lights needed for the work area.

3. Attach one end of the RED jumper lead to the positive terminal of the booster battery (identified by a red colour, + or P) and the other end of the RED jumper lead to the positive terminal of the flat battery.

4. Attach one end of the BLACK jumper lead to the negative terminal of the booster battery (identified by a black colour, - or N) and the other end of the BLACK jumper lead to a solid stationary, metallic point on the engine of the vehicle with the flat battery. DO NOT CONNECT DIRECTLY TO NEGATIVE TERMINAL OF VEHICLE'S BATTERY.



5. When making all connections take care that the jumper lead clamps do not touch each other. Also, ensure that jumper leads are not on or near pulleys, fans or other points that will move when the engine is started.

6. Start the engine in the vehicle with the good battery and run the engine at a moderate speed. Then start the engine with the flat battery. Attempts to start the engine should not last longer than 15 seconds and should have an interval of 1 minute between attempts.

7. After starting, allow both engines to idle for approx. 3 minutes with the leads still connected.

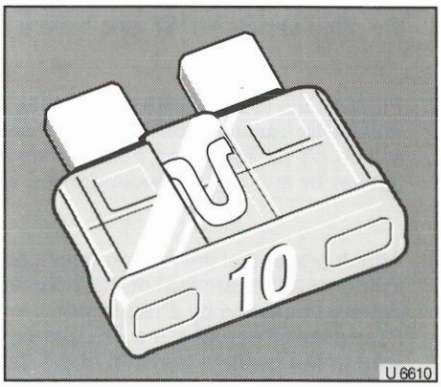
7. Leave the engine running while removing the jumper leads - in the exact reverse order they were installed. While removing each clamp, take care that it does not touch any other metal while the other end remains attached.

FUSES

There are two fuse boxes; one is in the dash panel next to the steering column and the other is in the engine compartment. Fuses are also located singly in the engine compartment. When replacing a fuse, turn off the respective switch.

To determine whether or not a fuse is "blown", it is necessary to pull outthe suspect fuse and examine the element in the fuse. A fuse puller is provided in the fuse box. A blown fuse can be recognized by its melted wire.

If a fuse blows twice in a row a fault is indicated. The cause should be located and fixed, by a Holden Dealer.

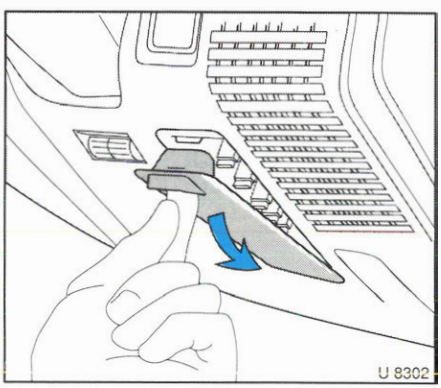


Dash panel fuses

To open the fuse cover in the dash panel, pull the top of the cover then pivot downwards.

Always ensure the cover is in place after use.

The fuse amperage is shown on the inside of the fuse cover.



1 Central locking system
2. Brake lights, hazard warning
3. Courtesy light, radio
4. Rear window demister
5. Rear fog lights
6. Windscreen wipers
7. Instruments, warning lights, turn signals, electric mirrors
8. -
9. Ignition, lights on buzzer
10. Rear window wiper
11 Electric windows, left
12. Electric windows, right
13. Electric window switches, cigarette lighter
14. -

FUSES

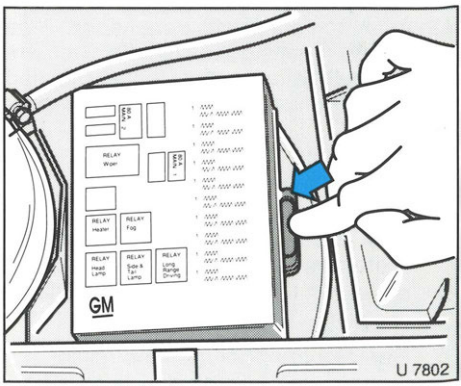
Fuse box in engine compartment

This fuse box, located on the driver's side of the engine compartment, contains circuit fuses, main fuses and relays.

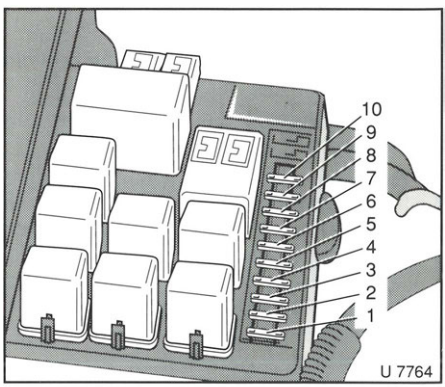
To remove the cover, depress the catch at the front of the box and release the tabs at the rear.

Always ensure the cover is in place after use.

The fuse amperages are shown on the fuse cover.



1. Parking and tail lights (right)
2. Parking and tail lights (left)
3. -
4. Air conditioning fan
5. Horn, secondary air injection pump, engine diagnostics
6. Fuel pump and engine management
7. Heater fan, air conditioning
8. - -
9 Headlights (right)
10 Headlights (left)



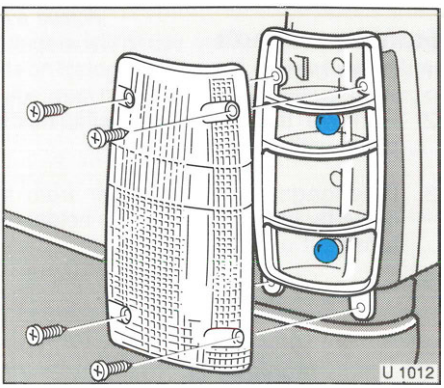
Relays are also contained in this fuse box; their usage is indicated on the cover.

Four fusible links are also located in the fuse box in the engine compartment.

CAUTION: When replacing a fuse be sure to use a fuse of the specified amperage. Never install a wire or similar as it could damage electrical components and cause a fire.

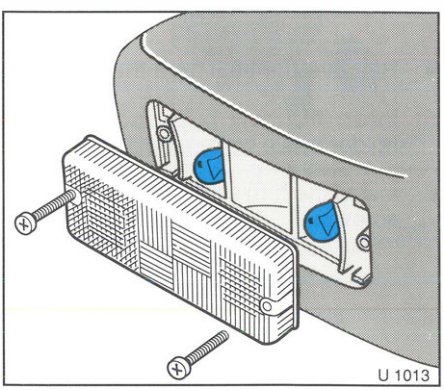
BULB REPLACEMENT

Reverse lights and rear fog lights



1. Remove the lens, held in place with four screws.
2. Remove the bulb from the holder.
   The reverse light is in the upper position, the fog light is in the lower position.
3. Insert the new bulb.
4. Install the lens, taking care not to crack the lens when tightening the screws.

Rear turn signal, brake, tail lights

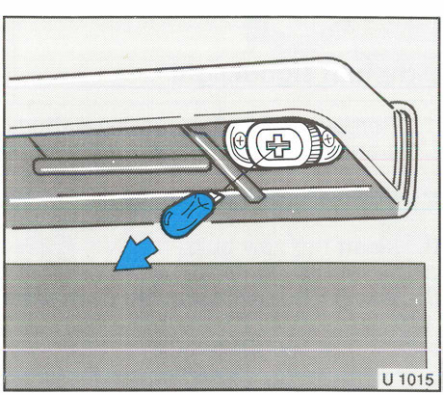


1. Remove the lens, held in place with two screws.
2. Remove the bulb from the holder. Bulb sequence from side to centre:

   Turn signal

   Tail and brake (two-filament bulb)
3. Insert the new bulb.
4. Install the lens: take care not to crack the lens when tightening the screws.

Number plate light



1. Remove the lens screws.
2. Pull the bulb from the light.
3. Insert the new bulb.
4. Install the lens.

High stop light

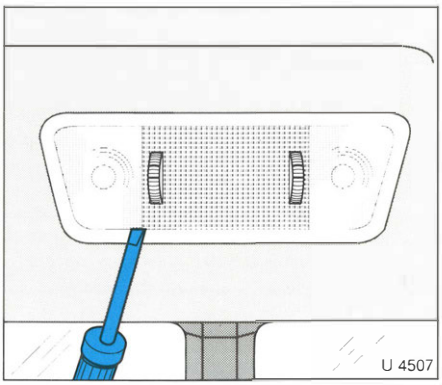
It is recommended that the lighting be replaced by your Holden Dealer.

BULB REPLACEMENT

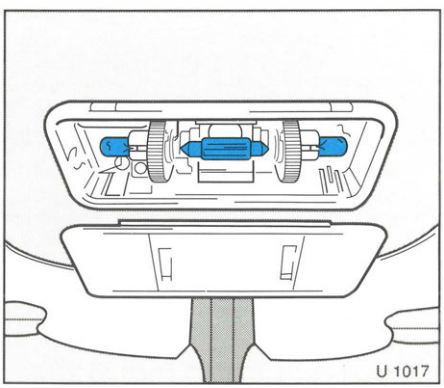
Courtesy/reading light

Before removing the courtesy lens, close the front doors so that the light is not live.

1. Lever out the lens by inserting a screwdriver between the lens and the light housing.

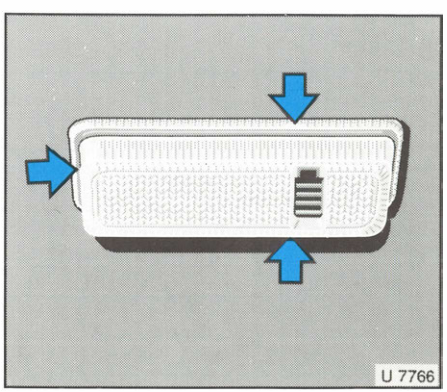


2. Press the courtesy light bulb sideways towards the spring clips to remove. Pull the reading light bulbs from their holders.
3. Insert the new bulb.
4. Press the lens into the light housing.



Rear passenger light (if fitted) and load compartment light (if fitted)

1. Lightly press in the end and sides of the lens and pull the lens from the light housing.
2. Press the bulb sideways towards the spring clips to remove.
3. Insert the new bulb.
4. Refit the lens to the light.



Notes

CHAPTER 7

Weekly checks

Page

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7-2 Service manuals
7-3 Engine coolant level check
7-4 Engine oil level check
7-6 Brake fluid level check
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7-7 Power steering fluid level check
7-7 Washer fluid level check
7-8 Tyre air pressure
7-9 Tyres (general)
7-10 Battery
7-11 Hoist locations

MISCELLANEOUS CHECKS

As well as taking your vehicle to be serviced (refer Chapter 12) there are a few simple, weekly checks that the owner (or Nominee) is required to make. These are shown on the following pages.

CAUTION: The engine cooling fan can start working unexpectedly, even when the engine is not running. To avoid injury from the fan, make sure the ignition key is switched OFF, so that the fan cannot start operating.

CAUTION: Electronic ignition systems have a high ignition power. Do not touch the ignition system; this could be highly dangerous.

The following checks should also be regularly done to ensure safety of your vehicle.

- that all exterior lights are working and that their appropriate interior indicators light up.
- mirrors and glass are clean and not scratched.
- the aim of water on the windscreen or tailgate and condition of the wipers.
- demister operates.
- horn works.
- all seat belt condition and operation and check that buckles are clean and operating correctly. Remember that seat belts must never be worn twisted.

Service manuals

Holden also publishes various service manuals which are available from your Dealer.

ENGINE COOLANT LEVEL

To check the coolant level

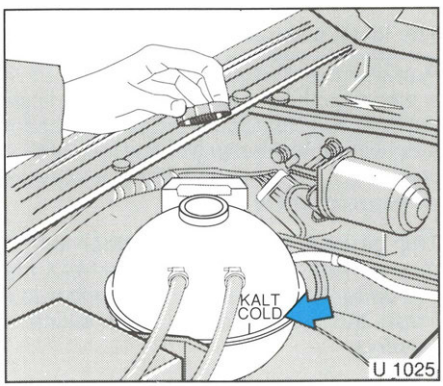
The coolant level should be checked at least weekly. This is simply a matter of looking at the level in the plastic tank.

The level should be slightly above the KALT/COLD mark when the engine is cold. The level rises when the engine is running and drops again when the engine cools down. If the level falls below the 'COLD' mark the coolant should be topped up to a little over the mark.

To add coolant

The LONG LIFE COOLANT in your vehicle conforms to Holden specification number HN 2043. This can be purchased as:

M40236 (1 litre)
M40307 (5 litres)
M40238 (20 litres)



If the plastic coolant tank requires topping up, first pre-mix a solution of 50% LONG LIFE COOLANT and 50% water.

Ensure the ignition is switched OFF.

Undo the cap on the top of the plastic tank, add the pre-mixed solution and secure the cap.

Failure to use the specific Holden coolant or maintain the specified concentration may void your warranty.

In emergency situations, plain water may be used temporarily until the correct Holden long life coolant is obtained as soon as possible from the nearest Holden Dealer.

The specified long life coolant works in three ways: it contains special corrosion inhibitors, it helps the cooling system in hot weather by increasing the boiling point and it protects against freezing down to -30°C, provided the correct concentration is maintained.

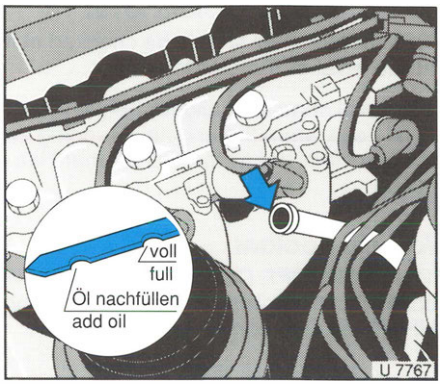
If you regularly have to top up the cooling system you should see your Holden Dealer.

CAUTION:
Corrosion inhibitors and anti-freeze fluids are poisonous. Use extreme care when handling. If swallowed seek medical attention.

Do not remove the radiator cap or plastic coolant tank cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

ENGINE OIL LEVEL

To check the level



- The oil level should be checked weekly.
- Check the level when the oil is warm, such as when stopping for fuel.
- The vehicle must be on level ground.
- After switching off the engine, wait a few minutes for the oil to settle.

The level is checked from the dipstick.

Remove the dipstick and wipe it clean with a clean cloth or paper. Insert the dipstick firmly all the way down, pause for a second then withdraw the dipstick and look at the oil level on it. *Jiggling the dipstick may help while re-inserting it.*

The oil level should be between the two marks, neither going above the MAX mark nor under the MIN mark. Remember to re-insert the dipstick firmly after taking the reading.

To add oil

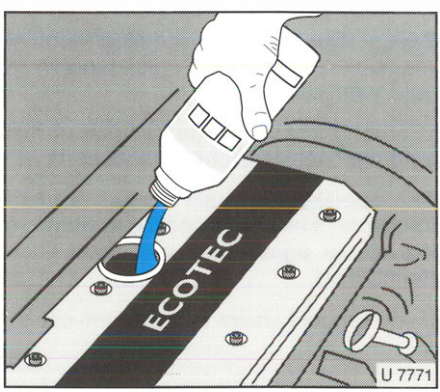
If the level is low and you need to add oil, use SG or SH grade engine oil 20W/50, or 15W/40 for prolonged use in snow areas.

To add oil, remove the oil cap on top of the engine. Pour the required oil into the opening. Wait a few minutes for the oil to settle. Then check the oil level with the dipstick again. If still too low, add more oil.

When correct, replace the cap and the dipstick.

If you check the oil level when the oil is cold do not run the engine first, as the cold oil will not drain back into the oil pan fast enough to give an accurate reading.

NOTE: Non-detergent and other low quality oils are specifically not recommended. The use of break-in oil, tune up compounds, friction reducing compounds and other supplemental additives are not recommended; their use will not only increase operating costs, but may also damage the engine.



The oil cap is marked with an oil can symbol and is removed by turning anticlockwise.

ENGINE OIL CONSUMPTION

Every internal combustion engine uses a certain amount of oil, especially when running-in. The engine is dependant on oil for lubricating the cylinder walls, pistons, rings and valve stems. A thin film of oil is left on the cylinder walls, some of which is carried into the combustion chamber and burnt during the combustion process. This also applies to the film of oil on the valve stems which is drawn into the combustion chamber and burnt.

There are several other factors that contribute to the rate of oil consumption in your engine: worn pistons, rings, valve stems and guides; the way in which the vehicle is operated; the quality and grade of oil; the oil level, and dilution of the oil.

• Operation of the vehicle

High speed driving and heavy towing increases engine temperature, which lowers oil viscosity, causing more oil to reach the combustion chamber and get burnt away.

• Quality and grade of oil

Oil viscosity is a significant factor in oil consumption. If you use an oil which is too "thin" (low viscosity) your oil consumption will increase. Use only the recommended grades of oil.

• Oil level

Maintaining a proper oil level is also an important factor in controlling oil consumption. An over full engine will splash oil onto the cylinder walls in quantities greater than the piston rings can control. This excess oil will be drawn into the combustion chamber and burnt, or may result in aeration of oil in the sump causing damage to the engine.

• Dilution

Probably the most prevalent complaint of oil consumption comes from the driver whose vehicle is frequently driven at below normal operating temperatures. The oil becomes diluted by fuel and moisture which settles in the oil pan and may even raise the oil level creating a false reading on the oil level dipstick. For example, in a vehicle that has accumulated 1,500 km of short distance or intermittent city operation and has consumed a normal amount of oil, the level may not have dropped from the FULL mark, due to dilution. If this vehicle is driven for some distance at highway speeds on a warm day, the dilution elements evaporate, lowering the oil level and the motorist assumes the oil "lost" has been consumed in the highway operation.

If, after taking into account the above factors you are still concerned that your engine has excessive oil consumption then you should discuss the situation with a Holden Dealer. Remember that an engine's oil consumption should not be judged until it has run at least 7,000 km.

BRAKE & CLUTCH FLUID LEVELS

Brake fluid level

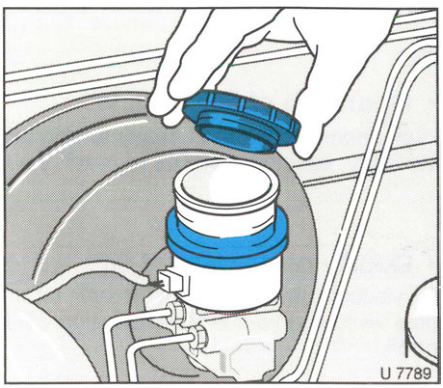
The brake fluid level should be checked weekly. The fluid level, is visible through the container and should be maintained between the MIN and MAX level marks. If the fluid is between these levels do not remove the cap, as brake fluid will quickly absorb moisture exposed if exposed to the atmosphere .

If fluid does need to be added, first ensure that the ignition is switched to OFF.

Wipe clean the sides of the cap and remove the cap. Top up with heavy duty brake fluid, which meets specification SAE J1703, DOT3. Remember to replace the cap.

Use only new brake fluid. Use of old, used or inferior brake fluid may endanger the functioning of the brake system.

If the brake fluid requires constant topping up it could indicate that a fault exists and should immediately see your Holden Dealer.



Clutch fluid level

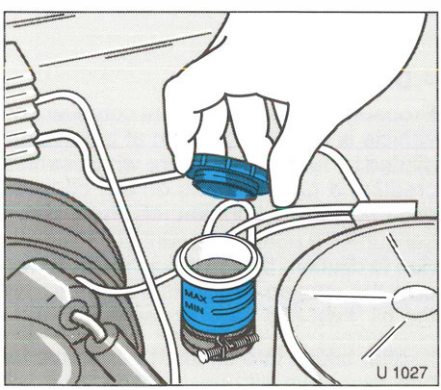
The clutch fluid level should be checked weekly. The fluid level, is visible through the container and should be maintained between the MIN and MAX level marks. If the fluid is between these levels do not remove the cap, as the fluid will quickly absorb moisture if exposed to the atmosphere .

If fluid does need to be added, first ensure that the ignition is switched OFF.

Wipe clean the sides of the cap and remove the cap. Top up with heavy duty brake fluid (both the clutch system and the brake system use **brake** fluid) which meets specification SAE J1703, DOT3. Remember to replace the cap.

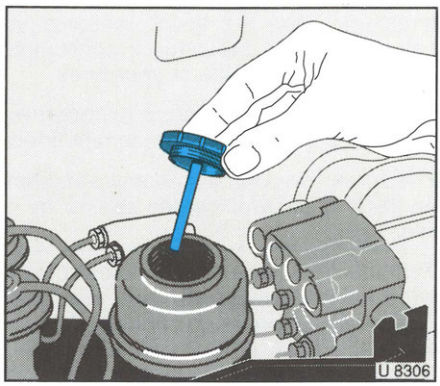
Use only new fluid. Use of old, used or inferior fluid may endanger the functioning of the clutch system.

If the clutch fluid requires constant topping up it could indicate that a fault exists and should immediately see your Holden Dealer.



POWER STEERING & WASHER FLUID LEVELS

Power steering fluid level



The level should be checked after the vehicle has been driven for a while (at least 20 minutes) so that the fluid is warm. A convenient time is when stopping for petrol.

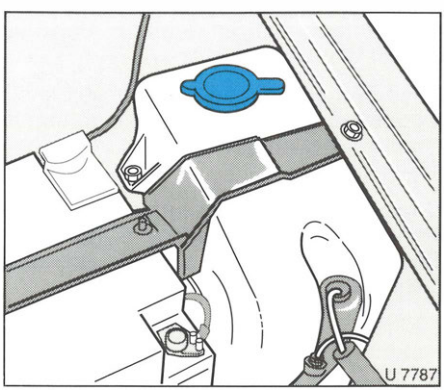
Ensure the ignition is switched OFF.

The power steering dipstick is attached to the underside of the cap. *Wipe clean the sides of the cap before removing.*

When the fluid is cold the level should not fall below the lower mark on the dipstick. When the vehicle has been driven for a while and the fluid is hot the level should be near the upper mark on the dipstick.

If fluid needs to be added, use DEXRON® III. Do not over fill and remember to replace the cap tightly. If you often need to add fluid, you should see your Holden Dealer.

Washer fluid level



The container shown supplies water to both the front windscreen washer and rear window washer.

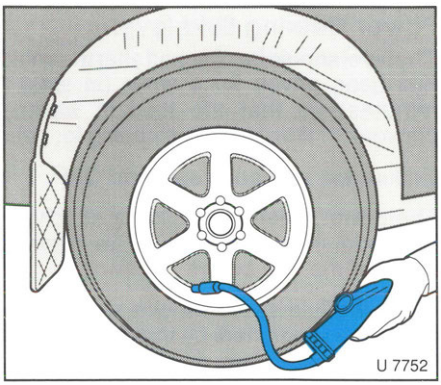
As washer fluid is constantly used the level should be checked and topped up weekly.

For a crystal clear windscreen, the correct amount of Optikleen (part number M39826) can be added. Do not use ordinary soap or detergent as these not only froth up but will also damage the wiper rubbers.

Make sure the cap is secured.

TYRES

Tyre air pressure



Weekly checking of the air pressure of your tyres (including the spare) ensures your safety, as well as reducing fuel consumption and increasing the life of your tyres.

For constant long distance or rough road driving, daily checking is recommended.

The correct pressure for your tyres is shown on the tyre placard, located behind the fuel filler flap.

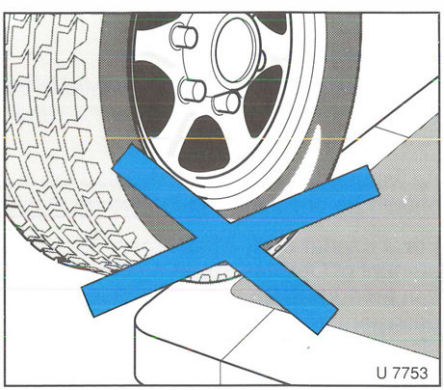
Tyre inflation pressure increases when the tyres have been driven more than 2 km. Therefore, the pressure should be checked when the tyres have been stationary for over 3 hours. If they must be checked while driving allow 10% more pressure.

Always use a tyre pressure gauge to check the tyres - simply looking at the tyres is not sufficient.

Remember to replace any valve dust caps or extensions, as this stops dirt and moisture from fouling the valves.

If the pressure is too low, considerable tyre warm up and internal damage can occur, leading to tread separation and even to a tyre blowout at high speeds. Hidden tyre damage cannot not be fixed by adding air afterwards.

Tyre condition, rim condition



Driving over sharp edges can lead to hidden tyre damage and rim damage, which can lead to tyre blowout.

Drive over edges slowly and at right angles if possible. When parking, ensure that the tyres are not pressed against the edge of the curb.

Check the tyres regularly for damage: stones, punctures, cuts, cracks, bulges etc. Check the rims for damage. Consult a Holden Dealer if in doubt.

Alignment and balance

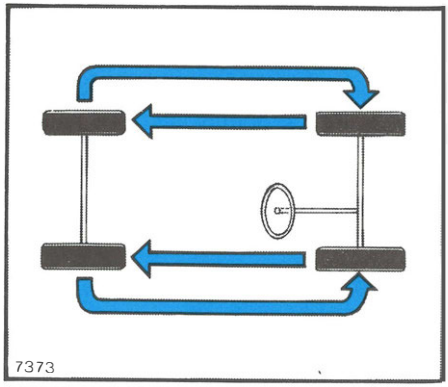
Improper wheel alignment can cause the tyres to wear faster and to wear unevenly. It can also cause the vehicle to pull to the left or right.

Out-of-balance wheels and tyres can cause annoying vibration and uneven tyre wear.

If you suspect either of the above problems exist have a wheel alignment and balance check carried out by your Holden Dealer.

TYRES cont.

Tyre rotation



Front and rear tyres perform different jobs and can wear differently depending on the types of roads driven, your driving habits, wheel alignment, balance, tyre pressures etc.

Check the tread depth regularly. If the front tyres have more wear than the rear tyres, have both front wheels changed with the rear wheels so that the tyres with the deeper tread are on the front.

If the wheels are rotated it is recommended that the balance be checked at the same time.

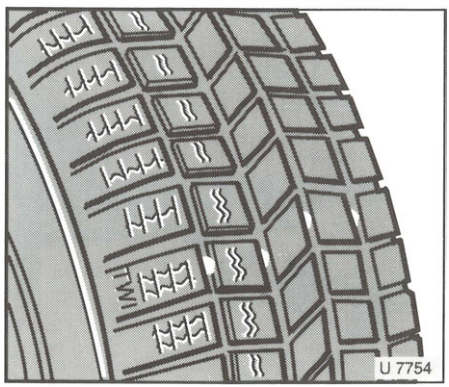
Replacement and repair

Replacing your factory fitted wheels and tyres with non specified wheels and tyres may affect your warranty as well as your insurance policy. Refer to tyre placard on your vehicle for tyre size and load rating, see previous page. Using a different size or type of tyre may affect such things as ride, handling, speedometer, vehicle ground clearance, tyre clearance or snow chain clearance.

Take care when using tyres with heavy treads, including tyres made for better grip in the wet. At sustained high speeds, this type of tyre will run at higher temperatures than standard tyres and consequently should only be operated within the limits recommended by the manufacturer. Any doubts about the tyres on your vehicle should be referred to your Holden Dealer.

New tyres should be fitted in pairs to the front. If replacing only one tyre, it should be paired on the same axle with the least worn of the other three.

You should replace your tyres when:



- The tyres are worn to the point where the tread indicators appear, or the cord or fabric is showing. The tyres originally fitted to your vehicle have built-in tread indicators which show up when the tyres are worn.
- The tread or sidewall is cut, split, or cracked deep enough to expose the cord or fabric.
- The tyre has a bump or bulge in it, indicating some kind of internal damage.
- The tyre has a puncture, cut or other damage which can't be repaired because of the size or location of the damage.

Do not attempt to drive on the flat tyre more than is necessary to stop safely. Driving even a short distance can damage the tyre and wheel beyond repair. Tyres which have been repaired or retreaded will not be able to be driven safely at high speeds. Therefore, their use is not recommended.

Notes

CHAPTER 8

Specifications

Page

8-2 Lubricants
8-3 Body dimensions
8-4 Identification plates

LUBRICANTS

Engine type		X20 SE: 2 litre , 4 cylinder petrol engine
Engine oil	Specification	Service classification SG or SH. Viscosity grade 20W/50 for normal use, Holden Motor Oil part no M40106 (5 litres) is recommended. For prolonged use in snow areas, the use of 15W/40 is recommended.
	Service Capacity (incl. filter)	4.5 litres approx
Coolant	Specification	50% water and 50% long life coolant conforming to Holden specification number HN2043, part number M40236 (1 litre) or M40307 (5 litres).
	Capacity	8.3 litres, approx.
Fuel	Specification	Unleaded fuel of at least 91 octane rating.
	Tank capacity	80 litres, approx.
Clutch fluid specification		Heavy duty brake fluid DOT 3, SAE specification J1703
Manual transmission, transfer case fluid spec.		Same oil as in the engine or 5W/30 or 10W/40 synthetic engine oil
Universal joints of propell. shaft		No. 2 Lithium based grease, with approximately 7% soap
Rear axle fluid specification		API -GL5 85W/140 LSD gear oil
Front axle fluid specification		API -GL5 85W/140 gear oil
Brake fluid specifiaction		Heavy duty brake fluid DOT 3, SAE specification J1703
Power steering fluid spec.		Dexron ®111

DIMENSIONS

Length	4192 mm
Width, including mirrors	1952 mm
Height, unloaded	1721 mm
Wheel base	2330 mm
Road clearance	214 mm
Front track	1455 mm
Rear track	1460 mm

IDENTIFICATION LABELS

Emission label

This label shows the relevant tune-up information required to maintain minimum exhaust emissions and is located on the radiator support panel.

Tyre placard

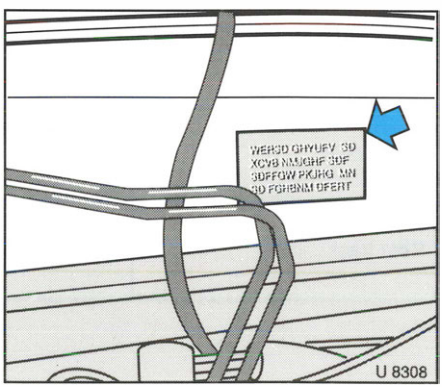
The TYRE PLACARD is located on the inside of the fuel filler flap.

Engine number

Individual identification numbers are stamped on the left-hand side of the engine block.

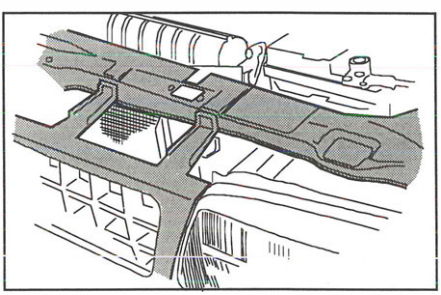
Identification plate

This plate, which is located on the bulkhead panel in the engine compartment, carries the identification numbers of the option codes that have been built into the vehicle.



Holden identification plate

The Holden Identification Plate is located on the radiator support panel. The number appearing on the plate should be used when identifying the vehicle, rather then the I.S.O.V.I.N. plate.

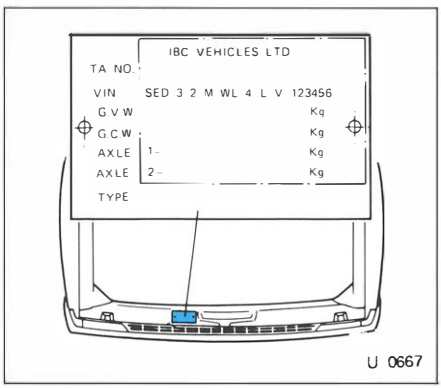


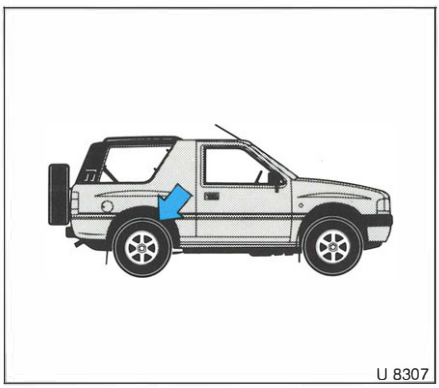
IDENTIFICATION LABELS

Vehicle identification number (I.S.O.V.I.N.)

The vehicle identification number is stamped on the vehicle identification plate, which is visible when the bonnet is open, in front of the radiator.

The vehicle identification number is also stamped in the outer surface of the chassis right-hand sidemember and can be viewed from under the vehicle, as shown.





S E D 5 5 S U D 2 S V 1 2 3 4 5 6

- Sequential Production Serial Number
- Plant code
- Model year: S=1995, T=1996
- Doors: 2=2 front doors
- Body style: UD=ute style with detachable roof
- Wheelbase: S=short
- Engine: 5=X20SE
- Model series
- World Manufacturer Identifier

CHAPTER 9

After Sales

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Note: Dealership names and addresses may change after the printing of this Handbook. The list contains both Authorised Holden Dealers and Authorised Holden Service Operations.

NEW VEHICLE WARRANTY CERTIFICATE

Isuzu-General Motors Australia Limited, A.C.N. 006 962 572, hereinafter I-GM, warrants that it will make good without charge, any defect which appears in the vehicle identified in the vehicle identification certificate, found on the inside front cover of this handbook.

Provided, for the Vehicle Warranty

1. the defect has been notified to an authorised Holden Dealer or Service Dealer:

   (a) before the vehicle has travelled a distance of 50,000 km or,

   (b) within 24 months of the date of delivery of the vehicle to the first retail purchaser (or in the case of a demonstrator vehicle within 24 months of the date when it was first placed into service by the Dealer)

   whichever comes first,

   AND

   for the Powertrain Warranty

   the defect has been notified to an authorised Holden Dealer or Service Dealer:

   (c) before the vehicle has travelled a distance of 100,000 km or,

   (d) within 36 months of the date of delivery of the vehicle to the first retail purchaser (or in the case of a demonstrator vehicle within 36 months of the date when it was first placed into service by the Dealer)

   whichever comes first,

   AND

2. the vehicle has been returned to an authorised Holden Dealer or Service Dealer

   AND

   the Dealer has determined that the defect complained of is one of workmanship and is not caused by

   (a) misuse or abuse of the vehicle such as by racing, rallying, overloading, etc., or by neglect

   (b) operation of the vehicle after it is known to be defective

   (c) accident or deliberate act

   (d) atmospheric fallout or flood, hail, salt, etc.

   (e) failure to carry out proper maintenance service

   (f) use of incorrect types and grades of fuel, oil or lubricants

   (g) alteration or modification of the vehicle by any party not authorised by I-GM

   (h) the fitting of parts or accessories not marketed by I-GM

   (i) any work carried out on the vehicle by someone other than an authorised Holden Dealer or Service Dealer,

BY THE DEALER (or as otherwise decided by I-GM's) MAKING GOOD THE DEFECT BY REPAIR OR, AT THE OPTION OF I-GM, BY REPLACEMENT.

NEW VEHICLE WARRANTY CERTIFICATE

Excluded from the 24/50 Vehicle Warranty are:

defects in tyres (these being warranted by their manufacturers), batteries (which are covered for 12 months) and services such as engine tuning, brake adjustment, replacement of air/oil/fuel filters, wiper rubbers etc., which are required as part of normal vehicle maintenance.

Covered by the 36/100 Powertrain Warranty are:

1. **ENGINE**
   a) **BASIC ENGINE ASSEMBLY PLUS**
   Intake manifold; exhaust manifold; super charger; turbo charger; intercooler; seals and gaskets; mountings; flywheel; E.F.I. components; carburettor/throttle body; fuel pump; injection pump; vacuum pump; injector nozzles; hoses and pipes for vacuum and EGR and PCV and fuel systems; fluid coupling; water pump.
   b) **EMISSION CONTROL**
   Air pump; air injection manifold; air suction manifold and valve; throttle positioner; modulator; catalytic converter; positive crank case ventilation system; air injection by air suction system; emission control system; exhaust gas re-circulation system.
   c) **ENGINE RELATED COMPUTERS**
   Engine control computer; emission control computer; E.F.I. computer; sensors.
2. **TRANSMISSION**
   Transmission; transaxle; transfer case assembly; torque converter; transmission control computer; mountings; seals and gaskets.
3. **CLUTCH**
   Cover Assembly
4. **FRONT / REAR AXLE**
   Axle Housing, Drive Shaft, Constant Velocity Joint, Propeller Shaft, Axle Hub, Axle Shaft, Bearing, Hub Bolts, Nuts, Oil Seals.
5. **SAFETY RESTRAINT**
   Seat Belts, Sensor Switch, Air Bag, Computer.

Excluded from the 36/100 Powertrain Warranty (but included in the 24/50 Vehicle Warranty) are:

Radiator; heater core; shock absorbers; springs and suspension mounting components; exhaust system; ignition coil/module; distributor; alternator; starter motor; fuel tank; transmission external linkages; wheels; instrumentation switches; spark plug leads plus any other components not specifically listed in Powertrain components shown above.

This Warranty applies only to vehicles operated in Australia and is given to the person who is entitled to possession of the vehicle whether as owner, lessee or otherwise and is given in addition to all rights conferred by law on that person.

Owners of vehicles operated outside Australia should consult their local dealer regarding the warranty applicable to their vehicles.

PARTS AND ACCESSORIES WARRANTY

I-GM warrants in respect of I-GM Parts and Accessories ("Parts" and "Accessories") that it will make good by repair or at its option by replacement any defect occurring in any such Parts and Accessories within 12 months from the date of acquisition or in the case of a Part or Accessory installed in a vehicle by a Holden Dealer or Service Dealer, within 24 months or before such vehicle has travelled a distance of 50,000 km from the date of installation, whichever first occurs.

Excluded from this warranty are maintenance items such as filters, spark plugs, wiper blades, etc. which require replacement as part of normal vehicle maintenance.

PARTS AND ACCESSORIES WARRANTY EXPLANATION

i ACCESSORIES - NEW VEHICLE

Accessories installed by a Holden Dealer or authorised Service Dealer to the new vehicle at the time of purchase are covered by the I-GM New Vehicle warranty of 24 months or 50,000 km (whichever occurs first) from date of fitment.

ii PARTS AND ACCESSORIES - INSTALLED DURING NEW VEHICLE WARRANTY PERIOD

Parts and/or Accessories installed by the Dealer or authorised Service Dealer during the new vehicle warranty period are covered by the unexpired portion of the new vehicle warranty. After expiry of the new vehicle warranty, the Parts and Accessories warranty will apply until the expiration of 24 months/50,000 km (whichever occurs first) from date of fitment.

iii PARTS AND ACCESSORIES - INSTALLED AFTER EXPIRY OF NEW VEHICLE WARRANTY

Parts and/or Accessories installed by the Dealer or Service Dealer after expiration of the new vehicle warranty are covered by the Parts and Accessories warranty of 24 months or 50,000 km (whichever occurs first) from date of fitment.

iv PARTS AND ACCESSORIES - PURCHASED AT RETAIL OR TRADE

Parts and/or Accessories purchased at trade or retail and installed by other than the Dealer or Service Dealer are warranted for 12 months from date of purchase. In these instances it is necessary to preserve proof of sale records to support warranty claims.

v PARTS AND ACCESSORIES WARRANTY EXCLUSIONS

Defects in tyres, these being warranted by their manufacturers, batteries which are covered for 12 months and maintenance service items, such as spark plugs, oil/air/fuel filters, coolant/inhibitor, wiper rubbers, brake pads, linings and discs, clutch linings, refrigerant, drive belts, distributor ignition points, bulbs and fuses, which are warranted against manufacturing defect existing at time of installation.

Where this Handbook specifies a schedule for replacement of parts, such parts are covered by parts warranty for the extent for the specified maintenance service interval.

WARRANTY QUESTIONS

This section is designed to assist you in understanding the I-GM Warranty provided with your new vehicle.

The following are some of the most frequently asked questions, for which detailed answers have been provided.

Q 1. How do I go about obtaining I-GM Warranty Service?

It is the responsibility of the Selling Dealer to provide I-GM Warranty service, therefore you should take your vehicle to the Selling Dealer whenever I-GM Warranty service is needed. However, if this is not possible, you may go to any other Authorised Holden Dealer. The details recorded inside the front cover of this handbook will be required by the Dealer.

Q 2. What should I do if my vehicle becomes unsafe or inoperative as a result of a defect which is covered by the IGM New Vehicle Warranty?

You should contact the nearest Authorised Holden Dealer or I-GM Customer Assistance Service (refer last page of this chapter) as soon as possible, and arrange for that Dealer to carry out the required I-GM Warranty Service.

Q 3. What should I do if, in an emergency, I-GM Warranty service is required and an Authorised Holden Dealer is not available to provide such service at the time?

If, in an emergency, a repair, replacement or adjustment (covered by the I-GM New Vehicle Warranty) is required to enable your vehicle to be operated safely and it is *not* practical for you to go to an Authorised Holden Dealer, the service (to the extent that it is necessary to enable your vehicle to be operated safely) may be performed by any other qualified mechanic or repairer. A claim for the reasonable cost may be made through the Authorised Holden Dealer who would normally provide you with I-GM Warranty Service. You must also take your vehicle to the Authorised Holden Dealer for inspection of the service and/or completion of any required I-GM Warranty Service, as soon as possible.

Note: During normal business hours you should seek authorisation from your nearest Authorised Holden Dealer or I-GM Customer Assistance Service, prior to repairs being commenced.

Q 4. Are damage or injury, loss of time, inconvenience, commercial or other direct or indirect loss covered by the I-GM Warranty?

No, these items are not covered. I-GM warranty only covers the repair, replacement or adjustment of those parts of your vehicle which are found to be defective in materials or workmanship. No other types of claim for compensation of any kind, even if the same resulted from a consequence of a defect in materials or workmanship in your vehicle, will be recognised under the I-GM New Vehicle Warranty.

You may have rights under the law to claim compensation outside of the I-GM New Vehicle Warranty, but any claim based on those rights should be separately pursued.

HOLDENWISE

ONE FEATURE EVERY VEHICLE MAKER WOULD LOVE TO BE ABLE TO OFFER.

Holden, a lot more than just a vehicle

As you'll soon discover, your new Holden is a lot more than just a vehicle..... because every Holden comes with one very special feature, HoldenWise.

HoldenWise was created to offer Holden owners the best Australia wide customer care system possible. To do this we've drawn on all the technical resources and service skills of I-GM. However, the key to our service is and always will be, people, with over 5,000 Holden service and parts specialists spread across the country. Thanks to them, we can offer HoldenWise Customer care at participating Holden Dealers with complete confidence.

Holden Specialists

HoldenWise technicians have been specially trained by the factory and have the experience in service and parts skills necessary to work on your vehicle. As you can imagine Holdens today are a lot more sophisticated than they used to be, which means specialist service is essential.

Knowing Holdens so well, our technicians know exactly how long each service takes, which is why Holden dealers can offer fixed price servicing.

HoldenWise Fixed Price Servicing

HoldenWise has eliminated one of the big worries about vehicle services, not knowing what the bill will be. Every participating Dealer service centre offers fixed price servicing. You need only ask and you'll be given a quote on how much the job will cost before it's started. So there are no nasty surprises when paying the bill.

Of course, if during the service, a problem is discovered, you'll be telephoned immediately before any more work is done.

You may be comforted to know that all participating Dealer work is covered by a workmanship warranty.

HoldenWise Workmanship Warranty

All services and repairs are covered by a 6 month/10,000 km Dealer warranty on workmanship. If a fault arises during that period, due to the service, your Holden Dealer will fix it. But workmanship isn't the only thing that is guaranteed.

HOLDENWISE

I-GM Parts Warranty

The parts used in HoldenWise services are manufactured and tested to the same high standards as the originals, so I-GM quality parts carry the same 24 month/50,000 km warranty when fitted by the Dealer. Naturally the warranty does not apply to normal maintenance parts like oil filters and spark plugs.

Whilst on the subject of parts, how often have you been told you'll have to wait a while until the parts can be found?

Thanks to the HoldenWise network, it's something you're unlikely to encounter at your Holden Dealer.

The HoldenWise Network

Most HoldenWise Dealer service and parts centres are computer linked through to the factory, which means you'll never have to wait an eternity for the right parts to be found.

What's more, with around 350 Dealers nationwide, you'll never be far from the same high standard of service.

i-GM Accessories

I-GM accessories are designed and approved as an integral part of your vehicle so you know they will fit and function precisely. When installed by the Holden Dealer to your new vehicle, I-GM accessories are covered by the I-GM warranty of 24 months or 50,000 km for your added protection.

Customer Assistance

Finally, we suggest you read the last page of this chapter for information on I-GM Customer Assistance Service.

UNAUTHORISED STATEMENTS IN RELATION TO HOLDEN'S PRODUCTS

No Holden Dealer or other person is authorised or permitted to give or make any statement assertion or undertaking in relation to the quality, performance, characteristics, descriptions or fitness for any purpose of any I-GM product or in connection with the supply of any I-GM product, which is at variance with any written statement assertion or undertaking on any of these subjects given or made by I-GM in its published sales literature, and the Company does not accept any such unauthorised action.

HOLDENWISE ROADSIDE SERVICE

3 YEAR / 24 HOUR ROADSIDE SERVICE

Our commitment to your satisfaction

HoldenWise Roadside Service is part of the unequalled commitment of Holden to provide total motoring satisfaction.

From the moment delivery is made, our aim is to provide the finest possible ownership experience, from design through manufacturing to servicing, and now beyond to the open road.

HoldenWise Roadside Service is your key to worry free motoring - one that covers you from your driveway to the open road, Australia-wide.

We hope the need never arises, but if it does, we'll be there to help through HoldenWise Roadside Service.

How does Holdenwise Roadside service work?

When you decide to buy a new Holden, you will have made a wise purchase decision and you will become a member of an exclusive club of Holden owners, covered by a 24 hour a day, 365 day a year, professional service for 3 years.

HoldenWise Roadside Service is provided by General Motors-Holden's Automotive Ltd., and delivered by the collective resources of the Australian Automobile Clubs and Associations (the constituents of the Australian Automobile Association) the 'AAA'.

Which cars are covered by the service?

As of 1st November 1993 all new Holden passenger and light commercial vehicles are covered for 36 months service.

HoldenWise Roadside Service is extended to private and business cars, taxis, rental companies, ali government and fleet operators.

What will Holdenwise roadside service do for me?

HoldenWise Roadside Service is designed to get you mobile after your vehicle has become disabled on a constructed road that is trafficable to normal two wheel drive vehicles.

Your vehicle must be disabled due to (non-collision related) mechanical failure/driver fault i.e. flat tyre, flat battery, locked out of the vehicle, or have simply run out of petrol.

Where permanent repairs are either not possible or practicable, temporary repairs will be carried out, or the vehicle towed to a Holden Dealer or approved repairer.

When do the benefits begin?

Cover begins the moment a Holden vehicle is purchased. An Interim Registration card entitles you to immediately receive all the benefits of HoldenWise Roadside Service.

Where can I get HoldenWise roadside service?

The professional service of HoldenWise Roadside Service is available to you at home, or at the roadside, anywhere in Australia, should you need it.

HOLDENWISE ROADSIDE SERVICE

What happens if my vehicle needs major repairs?

In the case of a breakdown where the vehicle cannot be made driveable or where temporary repairs may void the warranty, HoldenWise Roadside Service will provide towing to the nearest Holden Dealer, or if not geographically practicable, to the local 'AAA' constituent service facility. It is the responsibility of the owner to seek Holden's approval before any repairs are undertaken by a non Holden Dealership. This action will ensure the warranty remains valid.

During an after-hours' breakdown and where the metropolitan Holden Dealer or 'AAA' constituent's approved repairer is not open, the vehicle may be towed to any other location nominated by the driver not exceeding 20 kilometres from the point of breakdown.

Is there any membership or joining fee?

No, you will not be required to pay any fees. Every new Holden passenger car and light commercial vehicle owner is eligible for HoldenWise Roadside Service for 36 months.

What will HoldenWise roadside service cost me?

Materials, fuel and spare parts supplied during the service must be paid for at the time of the service. The service personnel attending will issue a receipt for these expenses. Reimbursement of expenses covered by Holden warranty can be claimed by contacting the local Holden Dealer.

What happens if I sell my vehicle?

Holdenwise Roadside Service stays with the vehicle, so if you sell your vehicle during the 36 month period, it is still eligible for the service. The new owner simply registers for the service by using the change of ownership form supplied in the member's kit.

Roadside 'ULTRA' - Prestige cars

Some Holden luxury models receive the additional cover of 'Roadside Ultra'. This additional cover provides the new owner with all the benefits of HoldenWise Roadside Service along with some very valuable extras, including accommodation, alternative transportation, rental car and Australia-wide vehicle recovery.

HSV - Holden Special vehicles

Purchasers of Holden Special Vehicles automatically qualify for the coveted HSV Gold Lion package. This package provides the Gold Lion Member with all the benefits of HoldenWise Roadside Service and where applicable, the enhancement package 'Roadside Ultra'.

How do I call for service?

Simply call **1800 817 100**, the HoldenWise toll free number from anywhere in Australia

The HoldenWise Roadside Service Kit contains full details of the service and any limitations that may apply. In the meantime further information is available from the toll free I-GM Customer Assistance Service line, on **1800 032 608** (or Melbourne metropolitan area: 9 644 6666).

HOLDEN DEALERS

N.S.W. Metropolitan

ARNCLIFFE	Suttons Motors Arncliffe P/L - 93 Princes Highway
ASHFIELD	Muirs Motors (Ashfield) P/L - 252 Parramatta Road
BALGOWLAH	James Langfield Holden - 164 Condamine Street
BANKSTOWN	Princeton Holden - 466 Chapel Road
BLACKTOWN	West City Holden - 120~128 Sunnyholt Road
CABRAMATTA	John Abrahams Holden - 266~284 Hume Highway
CAMPBELLTOWN	Paul Wakeling Holden - Cnr Blaxland & Campbelltown Rds
CASTLE HILL	Windsor Road Holden - Cnr Victoria Ave/Windsor Rd
CHULLORA	Suttons Motors (Chullora) P/L - Cnr Hume Hwy/Waterloo Rd
CROW'S NEST	New Hunter Holden - 446 Pacific Hwy
DEE WHY	Peninsula Holden - Cnr May & Mooramba Roads
GORDON	Sundell Holden - Cnr Pacific Hwy/McIntyre St
HOMEBUSH	Suttons Motors Homebush P/L - 112 Parramatta Road
LAKEMBA	Glen Fulton Holden Lakemba - 817 Canterbury Road
LIVERPOOL	A.C. McGrath & Co Pty Ltd - 411~419 Hume Highway
NEWPORT	Newport Car Care Centre - 340 Barrenjoey Road
PARRAMATTA	Boyded Holden Parramatta - 65 Church Street
PENNANT HILLS	Barry Smith Holden - 351~355 Pennant Hills Road
PENRITH	John Young Holden - 39~47 Henry Street
ROCKDALE	Peter Terry Holden - 571 Princes Hwy
ROSEBERY	Suttons City Holden - Link Road
RYDE	Hunter Holden - 603~605 Victoria Road
SPRINGWOOD	Springwood Holden - 15 Ferguson Road
ST LEONARDS	New Hunter Holden - 4 Herbert Street
ST. MARY'S	John Young Holden - Cnr Glossop & Harris Streets
SUTHERLAND	Greg Ball Holden - 499~505 Princes Highway
WAITARA	Suttons Motors Waitara P/L - 90 Pacific Hwy
WINDSOR	Hawkesbury Valley Holden - 18 Macquarie Street

N.S.W. Country

ALBURY	McRae White Holden - 647~657 Dean Stree
ARMIDALE	New State Motors - 103 Rusden Street
BALLINA	Quayside Motors - Pacific Highway
BARHAM	Hall's Motors Pty Ltd - 44 Noorong Street
BATHURST	Bathurst Motors Pty Ltd - 54 Durham Street
BEGA	Bega Valley Motors - 247 Carp Street
BELLINGEN	E.H.H. Raymond Pty Ltd - Broadway
BELMONT	Challenge Holden - 444 Pacific Highway
BLAYNEY	Alan May Auto. Services - 98 Adelaide Street
BOMBALA	Delcott Engineering Pty Ltd - Maybe Street
BOOROWA	Boowowa Auto Repairs - 40 Marsden Street
BOURKE	Bourke Smash Repairs - 12 Richard Street
BREWARRINA	Lukas Holden - Bathurst Street
BROKEN HILL	Donlee Motors Pty Ltd - Cnr Gaiena & Rakow Streets
CAMDEN	Paul Wakeling Pty Ltd - 15 Camden Road
CANOWINDRA	Canowindra Motors - Gaskill Street
CARDIFF	Brian Kelly Holden - 35~39 MacQuarie Road

HOLDEN DEALERS

CASINO	McKinnon Holden - 142 Barker Street
CESSNOCK	Geoff Boyd Holden - 173~175 Wollombi Road
COBAR	Cobar Motors Pty Ltd - Barton Street
COFF'S HARBOUR	Geoff King Holden - Cnr Pacific Hwy and Thompson Road
COOLAMON	Coolamon Motors - Cowabbie Street
COOMA	Summit Holden - 66~70 Sharp Street
COONABARABRAN	Allan Cooper Holden - John Street
COONAMBLE	Moody's Motors - 37 Aberford Street
COOTAMUNDRA	Jenkins Garage - 111 Wallendoon Street
COROWA	R.W.E. Fraser & Co Pty Ltd - 218 Honour Avenue
COWRA	Waugoola Motors Pty Ltd - Kendal Street
CROOKWELL	Crookwell Autos - 114 Goulburn Street
DENILIQUIN	Burchfield Bros & Co - 112~114 End Street
DORRIGO	Phil Noble Motors - 46~48 Hickory Street
DUBBO	John Kierath - 54 Bourke Street
DUNGOG	Turner Holden - 248 Dowling Street
EDEN	Ron Doyle - 113 Imlay Street
FINLEY	Riverina Garage Finley - 104 Murray Street
FORBES	Paddison & Co - Cnr Rankin St & Court Lane
GILGANDRA	Allan Cooper Holden - 106 Warren Road
GLEN INNES	Glen Severn Holden - 167 Grey Street
GLOUCESTER	Grahame's Garage Pty Ltd - 1 Park Street
GOSFORD	Noble Holden - Pacific Highway
GOULBURN	Geissler Motors - 279~298 Auburn Street
GRAFTON	Ken Casson Holden - 37~39 Turf Street
GRENFELL	Terry Carroll Motors Pty Ltd - 40 Alexandra Street
GRIFFITH	Leo Franco Holden - 164~166 Yambil Street
GUNNEDAH	Namoi Valley Motors - 48 Barber Street
GUNNING	Bailey's Garage Pty Ltd - Yass Street
GUYRA	Burgess Garage Pty Ltd - 131~143 Bradley Street
HARDEN	Ginty & O'Leary - Cnr Station & Albury Streets
HAY	Royce Curtis Motors - 168 Lachlan Street
HOLBROOK	Lieschke Motors Pty Ltd - Albury Street
INVERELL	Gaukroger Sales Pty Ltd - Vivian Street
JERILDERIE	Jerilderie Motors - Jerilderie Street
KANDOS	Chrisfield Holden - 11 Angus Street
KATOOMBA	Katoomba Holden - 136 Great Western Highway
KEMPSEY	Thoroughgood Motors - 118~132 Belgrave Street
KIAMA	Glen Fulton Holden - 35~41 Collins Street
KYOGLE	O & H Holden - 128~134 Summerland Way
LEETON	John Ryan Holden - 47 Pine Street
LISMORE	John Chant Motors Pty Ltd - 21~27 Carrington Street
MACKSVILLE	Eastland Auto Centre - 18~22 Cooper Street
MACLEAN	O'Halloran Motors - 175 River Street
MAITLAND	Heritage Holden - 557~567 High Street
MOREE	Keith Haddad Holden - Cnr Boston & Heber Streets
MORUYA	Surfair Holden - 88 Vulcan Street
MOSS VALE	Vagg & Partners Holden - 160~162 Argyle Street
MULLUMBIMBY	Tony Carsburg Holden - 2 Argyle Street
MUDGEE	Ross Granata Motors - 47~55 Market Street

HOLDEN DEALERS

MURWILLUMBAH	Tweed Motors Murwillumbah - 29 Prospero Street
MUSWELLBROOK	Upper Hunter Motors Pty Ltd - 116 Bridge Street
NARRABRI	Allan Cooper Holden - 181 Maitland Street
NARROMINE	L.E. Stanley Pty Ltd - Dandaloo Street
NEWCASTLE	Newcastle City Holden - 745 Hunter Street
NOWRA	Glendon Motors Holden - 301~313 Princes Highway
ORANGE	Canobolas Holden - 348 Summer Street
PARKES	Go Motors of Parkes - Cnr Mitchell & Clarinda Sts
PEAK HILL	S.Leary & Sons Pty Ltd - Mingelo Street
PORT MACQUARIE	Todd Holden - 16~20 Clarence Street
QUIRINDI	Browning Motors - 82 Henry Street
SCONE	Upper Hunter Motors (Scone) - 100 Liverpool Street
SINGLETON	Lancaster Holden - 80 John Street
TAMWORTH	Kensell's Holden - Cnr Bourke St & Kable Ave
TAREE	Hardes Auto House - Beeton Parade
TEMORA	Rod Lovering Holden - 2 Stockinbingal Road
TENTERFIELD	Sexton & Green (Sales & Service) P/L - 148 Rouse Street
TUNCURRY	Great Lakes Holden - 144 Manning Street
TUMUT	Nancarrow Holden - 35 Fitzroy Street
TWEED HEADS	Tweed Motors Pty Ltd - 75~79 Pacific Highway
ULLADULLA	Alan May Holden - 150 Princes Highway
WAGGA	Wagga Motors Pty Ltd - 32 Dobney Avenue
WALCHA	Bowden's Garage Pty Ltd - Derby Street
WALGETT	Walgett Garage Pty Ltd - 81 Wee Waa Street
WALLA WALLA	D.E. Lieschke & Son Pty Ltd - Commercial Street
WARIALDA	Roger Moore - Hope Street
WARILLA	Wilson's Warilla Pty Ltd - 29 Shellharbour Road
WARREN	Fuller Bros - Dubbo Street
WEE WAA	Allan Cooper Holden - Rose Street
WELLINGTON	Gersbach's Garage Pty Ltd - 92 Lee Street
WEST WYALONG	West Wyalong Motors - 183 Main Street
WOLLONGONG	Dwyers City Holden - 31~33 Crown Street
WYONG	Barry Robertson Holden - 172 Pacific Highway
YASS	Bill Nesbitt Holden - 221 Comur Street
YOUNG	Harden & Geelan Holden - 48 Boorowa Street

A.C.T.

BELCONNEN	Gerald Slaven Holden - Josephson Street
BRADDON	Beazley & Bruce Holden - 44 Mort Street
PHILLIP	Commonwealth Motors Pty Ltd - 158 Melrose Drive

HOLDEN DEALERS

Vic. Metropolitian

BERWICK	Barry Bourke Holden - 755 Princes Highway
BUNDOORA	Watson Holden - 413 Grimshaw Street
BURWOOD	Penfold Holden - 63 Burwood Highway
CAULFIELD	Booran Holden - 1049 Glenhuntly Road
CHELSEA	Harrison Holden - 370 Nepean Highway
CHELTENHAM	Booran Holden - 1212 Nepean Highway
DANDENONG	Daryl Shave Holden - 25 Lonsdale Street
DONCASTER	Doncaster Holden - 636~640 Doncaster Road
ELSTERNWICK	Reg Hunt Holden - 77 Nepean Highway
ESSENDON	Preston Motors (Essendon) P/L - 205~211 Keilor Road
FAWKNER	Mantello Holden - 1263 Sydney Road
FERNTREE GULLY	Neilson Holden F.T.G. - 980 Burwood Highway
FOOTSCRAY	Alan Mance Holden - 435 Barkly Street
FRANKSTON	Noel Gould Holden - 140 Dandenong Road
GEELONG	R & B Smith Holden - 510 Moorabool Street
GEELONG	Winter & Taylor (Sales) P/L - 23 Cavendish Street
GLEN WAVERLEY	Geoff Brady Holden - 565~577 Springvale Road
HASTINGS	Westernport Holden - 2147 Flinders Road
LILYDALE	Noel Dight Holden - 344 Main Street
MORNINGTON	John Collins Holden - 976 Nepean Highway
OAKLEIGH	Garry & Warren Smith - 1575 Dandenong Road
PRESTON	Ralph D'Silva Holden - 573~603 High Street
RINGWOOD	Patterson Cheney Holden - 45~57 Maroondah Highway
SOUTH MELBOURNE	Patterson Cheney Holden - 168 Sturt Street
SOUTH YARRA	Penfold Holden - 681 Chapel Street
SUNSHINE	Kevin Dennis Holden - 272 Ballarat Road
WERRIBEE	Ballan Holden - 56 Princes Highway
WEST MELBOURNE	Reg Hunt Holden - 577 King Street

Vic. Country

ALEXANDRA	GK & JH Radford - 79 Greints Street
ARARAT	David Reid Motors - High Street
BAIRNSDALE	The Big Garage - 199 Main Street
BALLARAT	Peter Amor Motors - 2~26 Mair Street
BENALLA	Arnott's Motors - 88~90 Bridge Street
BENDIGO	Ron Poyser Holden - Cnr High & Myrtle Streets
BIRCHIP	R.L. & C.J. Bales - 38 Cumming Avenue
BOORT	Jaron Motors - 55 Godfrey Street
CAMPERDOWN	Camperdown Auto Parts - 96 Manifold Street
CASTERTON	Coxons Holden - 139 Henty Street
CHARLTON	K.V. Charlton - 70 High Street
COBRAM	Neville Mustica Motors - Murray Valley Hwy
COHUNA	Hare Motors Holden - 105~107 King George Street
COLAC	Parker Bros. Motor Co - 224 Murray Street
DAYLESFORD	K.R. Little - Vincent Street
DIMBOOLA	Westerfield Motors Pty Ltd - 64 Lloyd Street
DONALD	O.A. Shilton & Sons Pty Ltd - 5 Wood Street

HOLDEN DEALERS

ECHUCA	Echuca Motors - 1 Nothern Highway
EUROA	Croxford Holden - 41 Clifton Street
FOSTER	Ray Dower Motors - 78 Main Street
HAMILTON	Peter Sandow Motors Pty Ltd - 261 Gray Street
HOPETOUN	Hopetoun Motors - 78 Lascelles Street
HORSHAM	Ivan Morrow Motors Pty Ltd - 22 O'Callaghans Street
KANIVA	Kaniva Motors - 82 Commercial Street
KOOWEERUP	Chelfco Two Hundred & Two - Rossiter Road
KORUMBURRA	Peter Dunlevie Holden - 42 Commercial Street
KYABRAM	D'Alberto Holden - 60 McEwen Road
KYNETON	Mollison Motors Pty Ltd - 167 Mollison Street
LEONGATHA	Gleeson Holden - 37~43 Bair Street
MAFFRA	Maffra Holden - Johnson Street
MANSFIELD	Martin's Garage - 52~54 Chenery Street
MARYBOROUGH	Graham Jacka Holden - 35 Nolan Street
MILDURA	Stuart & Harrison (Sales) Pty Ltd - 24~32 Deakin Avenue
MORTLAKE	W. Christian (Mortlake) Pty Ltd - 107 Dunlop Street
MURRAYVILLE	Peers Motors - McKenzie Street
NATHALIA	BHB Motors - 6 Blake Street
NHILL	Ivan Morrow Motors Pty Ltd - 71~73 Nelson Street
NULLAWIL	Nullawil Motors & General Engineers - Calder Highway
ORBOST	Merlin Motors - Stanley Street
PORTLAND	Reynolds Holden - Henty Highway
QUAMBATOOK	Quambatook Auto Services - 32 Gutherie Street
ROCHESTER	Bruce Hocking Motors Pty Ltd - 71 Moore Street
ROBINVALE	Stuart & Harrison (Sales) Pty Ltd - cnr Herbert & George Sts
RUTHERGLEN	Jasper Bros Pty Ltd - 62 Main Street
SALE	Keith Boyd Holden - 273 York Street
SEALAKE	Paddy Smith Holden - Calder Highway
SEYMOUR	Neil Beer Holden - 49 Emily Street
SHEPPARTON	Parker Bros. Auto Co. - Benalla Road
STAWELL	Tonkin Motors - 71~73 Main Road
SWAN HILL	Swan Hill Holden - 94~102 Campbell Street
TALLANGATTA	Crispin Motors - 21 Towong Street
TIMBOON	Timboon Motors - Bailey Street
TRARALGON	Colin Watson Holden - Princes Highway
UNDERBOOL	A.J. Gloster & Sons - Cotter Street
WANGARATTA	Alan Capp (New Cars) Pty Ltd - Tone Road
WARBURTON	Col McKenzie Holden - Main Street
WARRACKNABEAL	Amor Motors Aubrey Truck Sales - 33 Woolcock Street
WARRAGUL	Vin Rowe Holden - 3 Endeavour Street
WARRNAMBOOL	Callaghan Motors Pty Ltd - 133~137 Fairy Street
WONTHAGGI	J.P. Holden - 2 Murray Street
YARRAM	Graham Helleren Motors Pty Ltd - 150 Commercial Road
YARRAWONGA	Pigdons Pty Ltd - Belmore Street

HOLDEN DEALERS

Qld. Metropolitian

ALBION	Bill Harrison Car Sales - Frodsham Street & Crosby Road
ASPLEY	Zupps Aspley Pty Ltd - 1442 Gympie Road
CAPALABA	Oldfield Holden - 103 Redland Bay Road
INDOOROOPILLY	Westpoint Holden - 440 Moggill Road
IPSWICH	Ross Llewellyn Holden - 246 Brisbane Road
MOOROOKA	John Sivyer Holden - 1060 Ipswich Road
MT. GRAVATT	Zupps Motors Pty Ltd - 1310 Logan Road
NEWSTEAD	Eagers Retail Pty Ltd - 95 Breakfast Creek Road
NUNDAH	Eagers (Northside) - 1319 Sandgate Road
PETRIE	Petrie Holden - 1059 Gympie Road
REDCLIFFE	Village Holden - 425 Elizabeth Avenue
SPRINGWOOD	Motorama Holden - 3455 Pacific Highway
WINDSOR	Leach Holden - 143 Newmarket Road
WOOLLOONGABBA	Armstrong Holden - 73 Ipswich Road
WYNNUM	Doug Barton Holden - 200 Tingal Road

Qld. Country

ATHERTON	Redding Motors Pty Ltd - 2 Cook Street
AYR	Honeycombes Sales & Service - 213~217 Queen Street
BEAUDESERT	Lawson Holden - 57 Brisbane Street
BOWEN	McDermott Holden - 98 Herbert Street
BUNDABERG	Ross Gray Holden - Takalvan Street
CABOOLTURE	Beecham Holden - Bribie Island Road
CAIRNS	Ireland Holden - 227~233 Mulgrave Road
CALOUNDRA	Allan Scott Holden - Caloundra Road
CHARLEVILLE	Alan Dobbin Holden - 129 Alfred Street
CHARTERS TOWERS	Peters Holden - 57 Mosman Street
CHINCHILLA	Ainsworth Motors & Machinery Pty Ltd - 55 Chinchilla Street
CLONCURRY	Cloncurry Motors - 59 Scarr Street
CROWS NEST	Dennis Nissen Motors - 14 William Street
DALBY	Johnson's Holden - 36 Drayton Street
EMERALD	Orion Agriculture Supplies Pty Ltd - Clermont Street
GATTON	Gatton Auto Centre - 67 Railway Street
GLADSTONE	Andersons Auto City - 56 Yarroon Street
GYMPIE	Madills - 35 Mellor Street
INGHAM	Origlasso Motors - 99 Lannercost Street
INNISFAIL	I.C. Taylor Pty Ltd - 117 Edith Street
JULIA CREEK	Julia Creek Motors Pty Ltd - Burke Street
KILCOY	Hobart's Garage - 58 Mary Street
KINGAROY	John Dundas Pty Ltd - 38 King Street
LAIDLEY	Buhse's Garage Pty Ltd - 5 Spicer Street
LONGREACH	Longreach Motors - 33 Swan Street
MACKAY	Pioneer Holden - Cnr Gordon & Wellington Streets
MAROOCHYDORE	Sunco Holden - Wises Road
MARYBOROUGH	Whitaker Holden - 109~111 March Street
MOUNT ISA	Barkly Motors Pty Ltd - Marian Street
MURGON	Clifton Motors - McAllister Street

HOLDEN DEALERS

NAMBOUR	Kallenbach Motors - 139 Howard Street
NANANGO	Nanango Motors Pty Ltd - 72~74 Drayton Street
NOOSAVILLE	Madill's Noosa - Cnr Weyba Road and Mary Street
PROSERPINE	Crossley Car Whitsunday Pty Ltd - 162~164 Main Street
QUILPIE	Quality Motors - Boonkai Street
ROCKHAMPTON	Lawrence's - 327 Richardson Road
ROMA	Maranoa Multi Agencies - Bowen Street
SOUTHPORT	Lockhart Holden - Cnr Nerang Road & Olsen Avenue
SPRINGSURE	Springsure Motors - Eclipse Street
ST. GEORGE	Halpin Motors - 39~41 Grey Street
STANTHORPE	Central Motors - 42 Maryland Street
TOOWOOMBA	Toowoomba Holden - Cnr James & Hume Streets
TOWNSVILLE	Tony Ireland Holden - 87~91 Charters Towers Road
TULLY	Island Coast Holden - 12 Richardson Street
WARWICK	Deighton Motors Pty Ltd - Grafton Street

N.T.

ALICE SPRINGS	Kittle Holden - Cnr Wills & Railway Terrace
DARWIN	Kerry Holden - 21~25 Stuart Highway
KATHERINE	Master Motors - 3 Second Avenue

Tas.

BURNIE	Motors Burnie - 84~89 Marine Terrace
DEVONPORT	Motors Devonport - Victoria Parade
HOBART	Motors Pty Ltd - 179 MacQuarie Street
KING ISLAND	King Island Motors Pty Ltd - Netherby Road, Currie
LAUNCESTON	Motors Launceston - 93~95 Elizabeth Street
SMITHTON	Motors Smithton - Cnr Nelson & Gibson Street
ULVERSTONE	Motors Ulverston - 97~101 Reibey Street

HOLDEN DEALERS

S.A. Metropolitian

ADELAIDE	City Holden - 223 Grenfell Street
ELIZABETH	Peter Page Holden - Elizabeth Way
MALVERN	Claridge Holden - 361~367 Unley Road
PORT ADELAIDE	Smiths of Port Adelaide - 271 Commercial Road
REYNELLA	Southgate Holden - 49~59 Main South Road
SOMERTON PARK	Hamilton Holden - 278~288 Brighton Road
THEBARTON	Metro Holden - 1 Port Road
VALLEY VIEW	Plaza Holden - 817~839 North East Road

S.A. Country

BALAKLAVA	Balaklava Motors - 4 Wallace Street
BERRI	Rosenthal Bros Pty Ltd - Vaughan Terrace
CEDUNA	Beck Motors Pty Ltd - Poynton Street
CLARE	Brian Holmes Holden - 7 Old North Road
CLEVE	Herbert Motors Pty Ltd - Rudall Road
CUMMINS	Trigg & Wedd - 3 Umlauf Street
CRYSTAL BROOK	Newitts Crystal Brook - 26 Brandis Street
GAWLER	Steinborner Holden - Cnr Murray & Bridge Sts
KADINA	J.H. Rosewarne Pty Ltd - Graves Street
KEITH	Farmers Centre - McBain Street
KINGSCOTE	Roberts Motors - Telegraph Road
KINGSTON	Lecornu's Service Garage - Agnes Street
LOXTON	Flight Motors Pty Ltd - Bookpurnong Terrace
MAITLAND	Maitland Motors Pty Ltd - 58 Robert Street
MALLALA	Curnow's Garage Pty Ltd - Balaklava Road
MENINGIE	Peter Hood Holden - Cnr Princes Highway & Coonalpyn Rd
MILLICENT	Dennis Cowling Holden - 98 George Street
MT. BARKER	Gilbert Motors - 57 Adelaide Road
MT. GAMBIER	O.G. Roberts & Co - Jubilee Highway West
MURRAY BRIDGE	Dutton Motors Pty Ltd - 7 Adelaide Road
NARACOORTE	Kingcraig Motors Pty Ltd - 158~164 Smith Street
OLYMPIC DAM	Lavrick Engineering - Olympic Way
PORT AUGUSTA	Ken Feltus Holden - 38 Stirling Road
PORT LINCOLN	City Motors - King Street
PORT PIRIE	Spencer Holden - 50 Ellen Street
RENMARK	Rosenthal Motors Pty Ltd - Ral Ral Avenue
STRATHALBYN	Gilbert Holden Strathalbyn - High Street
TANUNDA	Hage & Co Pty Ltd - 50 Murray Street
VICTOR HARBOR	Southern Motors Holden - 5 Victoria Street
WAIKERIE	Riverside Holden - 6 Crush Terrace
WHYALLA	Ken Feltus Holden Whyalla - 74 Essington Lewis Avenue
YANKALILLA	Martin Motors Pty Ltd - Main Street
YORKETOWN	Southway Holden - 7 Minalaton Road

HOLDEN DEALERS

W.A. Metropolitian

CANNINGTON	Brian Gardner Holden - 1324 Albany Hwy
FREMANTLE	Shacks Holden - 64 Queen Victoria Street
GOSNELLS	Lance Gibbons Holden - 2325 Albany Highway
MELVILLE	Melville Motors Pty Ltd - 532~540 Canning Highway
MIDLAND	Goldy Holden - 161 Great Eastern Highway
MORLEY	Metro Motors - 212 Walter Road
NAVAL BASE	Shacks Cockburn - 15 Rockingham Road
OSBORNE PARK	North City Holden - Cnr Scarborough Beach Rd & Harborne St
PERTH	City Motors - 505 Newcastle Street
VICTORIA PARK	Young's Holden - 529 Albany Highway
WANNEROO	Phoenix Holden - 5 Berriman Drive

W.A. Country

ALBANY	Manley Stanwell Holden - 92~98 Earl Street
BRIDGETOWN	Kordics Bridgetown - Hampton Street
BROOKTON	Coote Motors - Robinson Road
BROOME	Norwest Holden - McPherson Street
BUNBURY	Bunbury Holden - 3 Sandridge Road
BUSSELTON	Fennessy Holden - 2~4 Bussell Hwy
CARNAMAH	T & H Walton Stores Pty Ltd - Robertson Street
CARNARVON	North West Autos - 175 Robinson Street
COLLIE	Station Motors - 102 Throssell Street
CORRIGIN	Farmpower - Kunjin Road
CRANBROOK	Cranbrook Motors - 11~13 Gathorne Street
DALWALLINU	Reid & Inglis - Johnson Street
ESPERANCE	Dempster Holden - Norseman Road
GERALDTON	Youngs Motors - Cathedral Avenue
GNOWANGERUP	G.S. Hendry & Co Pty Ltd - Yougenup Street
HARVEY	Stockman Holden - 111 Uduc Road
KALGOORLIE	Kyle Motors - 114 Boulder Road
KARRATHA	Intown Autos - 1 Harwood Way
KATANNING	Edwards Holden - 159 Clive Street
KELLERBERRIN	Dowding Motors - 1 Mitchell Street
KUNUNURRA	Elgee Automotive & Diesel Services - Mango Street
MANDURAH	Mandurah Holden - 283 Pinjarra Rd
MANJIMUP	Manjimup Automotive Services - Pritchard Street
MERREDIN	Carson's of Merredin - 112 Barrack Street
MOORA	Frank Lewis Holden - Gardiner Street
NAREMBEEN	Aquip Machinery - 20 Churchill Avenue
NARROGIN	Marley White & Co - Federal Street
NORTHAM	Withnell Motors - 58 Fitzgerald Street
WAGIN	Marley White & Co - Tudor Street
WONGAN HILLS	Agro Machinery Pty Ltd - Fenton Street
WYALKATCHEM	Agro Machinery - Railway Terrace

CUSTOMER ASSISTANCE

We want you to be happy with your new vehicle, together with the people you deal with while you have the vehicle.

Normally, any problems with the sales, operation or servicing of your vehicle will be handled by your Dealer's Sales and Service Department.

We realize however, that, with the best intentions, misunderstandings do occur sometimes.

> Therefore, we suggest you discuss any concern with one of the Dealer's management people. If you haven't received satisfaction from the Sales Manager or Service Manager - go to the General Manager or to the Dealer himself.

By now you should have satisfaction. If not, the I-GM Customer Assistance office is at your disposal.

> The I-GM Customer Assistance representatives can be telephoned from anywhere within Australia for only the cost of a local call. The Melbourne area number is 9 644 6666. Outside the Melbourne Metropolitan area, the number is 1800 032 608.

If your concern relates to parts/accessories and you have made contact with the Dealer or Distributor without satisfaction, you may contact Holden's Service Parts Operations on (03) 9 797 7341. Naturally, telephoning is the quickest and the best way to contact. However, if you prefer to write the address is:

> The Manager
>
> I-GM Customer Assistance Services
>
> PO Box 107
>
> Port Melbourne, 3207.

Your letter should clearly outline your concern or query, and include the following:

- Your name and address
- Telephone numbers, both private & Business
- Servicing Dealership's name and address
- Vehicle model
- Vehicle identification number (I.S.O.V.I.N.)
- Date of purchase
- Current odometer reading

Most of this information will be found on the Vehicle Identification Certificate, located inside the front cover of this handbook.

Before you write however, remember that the telephone is the quicker and more efficient means of communication.

CHAPTER 10

Towing

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10-2 Loading the vehicle
10-2 Towing weights
10-3 Roof rack loads
10-4 Starting on inclines
10-6 Towing precautions

LOADING AND TOWING

Overloading is a safety hazard and could also shorten the life of your vehicle.

Curb mass

Some States specify that the load being towed must not exceed the weight of the vehicle. The curb mass shown below is for the weight of a standard unloaded vehicle with a full tank of fuel.

Curb = 1,720 kg.

G.V.M.

Gross Vehicle Mass (G.V.M.) is the total weight that a vehicle is allowed to weigh when fully loaded. This must include luggage, passengers, a full tank of fuel and tow bar ball load. The maximum, allowable G.V.M. for your Frontera is 2,200 kg.

Towing capacity (State regulations permitting)

You may tow up to 750 kg without trailer braking.

You may tow up to the maximum towing limit of 1,600 kg, providing the trailer is fitted with trailer brakes that are driver actuated and operating on all wheels, which includes 'break away' operation in an emergency.

Note: If you tow a trailer at an altitude of more than 1,000 m above sea-level, reduce the maximum trailer weight by 10% of the G.V.M. for every increase of 1,000 m above sea-level. This is the result of a decrease in engine performance owing to decrease in the atmospheric pressure.

Front and rear axle loads

The maximum allowable front axle load is 1,000 kg. The maximum allowable rear axle load is 1,450 kg. However, the combination of the front and rear axle load should never exceed the maximum G.V.M.

Remember to take the tow bar ball load into account when determining the rear axle load.

LOADING AND TOWING

Tow bar ball load

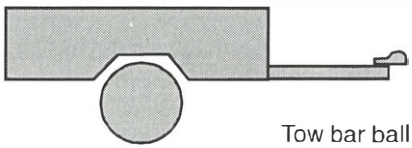
The tow bar ball load is the weight on the tow bar ball, when the packed trailer/caravan is hitched. It must not exceed or drop below the following.

- loaded trailer weighing up to 625 kg - at least 4% of the loaded trailer weight.
- loaded trailer weighing over 625 kg - at least 25 kg but not more than 50 kg.

The tow bar ball load can be adjusted by correctly packing the contents of the trailer/caravan. The vehicle and trailer should remain horizontal and if this can not be achieved through better load distribution then a load equalizer hitch should be used.

If the ball load is too light or too heavy, the steering and handling of the vehicle will be greatly impaired. However, it is desirable to aim for the maximum, rather than the minimum tow bar ball load.

When measuring the tow bar ball load, make sure that the drawbar of the loaded trailer/caravan is at the same height as it will be when the trailer/caravan is mounted on the vehicle. This is particularly important for trailer/caravans with tandem axles.



Tow bar ball load

Roof rack loads

For your safety and to avoid damaging the roof, only use the Holden roof rack system for your Frontera.

The maximum permissible roof rack load for your Frontera is 60 kg for normal road use and a maximum of 30 kg for off road use.

The roof rack load consists of the weight of the roof rack plus the load carried.

For safety reasons, distribute the load evenly, secure it with straps and do not drive faster than 120 km/h (where State Laws allow). The tyre inflation pressure should be set to the value given for full load.

TOWING AND LOADING

Fitting bull bars, driving lights, insect screens

When fitting these accessories be careful not to restrict air flow through the condenser and radiator, otherwise engine overheating and/or poor air conditioning performance may result.

Towing

Your vehicle is designed primarily as a passenger vehicle, so handling, durability and economy may be affected by towing a caravan or trailer. Before attempting any towing, ensure that the correct equipment is fitted. Your Holden Dealer will help supply and install towing equipment to suit your requirements.

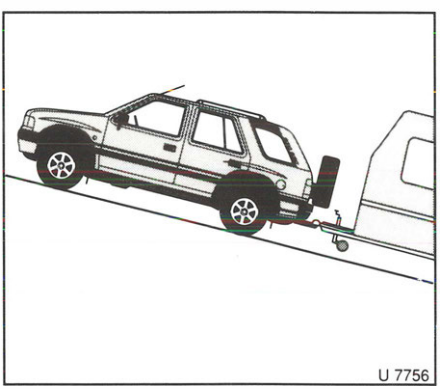
Note: Holden towing equipment is recommended where it is available. Where it is not available, no recommendation is made as to the make of equipment which should be used. Holden will not accept liability for defects occurring in towing equipment not marketed by Holden or for defects in the vehicle arising from the use of such equipment.

Starting on inclines

Before starting off, turn off all unnecessary loads (e.g. rear window demister).

The most favourable engine speed when starting off on an incline is between 2,500 and 3,000 rpm.

Use the clutch smoothly, without causing too much clutch slip, as this will increase the difficulty of restarting on a steep incline.



TOWING PRECAUTIONS

- Your vehicle will handle differently when towing. It's a good idea to make a couple of short distance trips with the caravan or trailer before you set off on the big one.
- Have your vehicle correctly maintained and serviced.
- Have your caravan or trailer maintained and serviced, with particular attention given to condition of brakes, tyres, suspension, wheel bearings, towing coupling and lighting.
- Driving speed should be reduced when towing.
- If the caravan/trailer has low directional stability it is advisable to use a stabilizer to limit rolling motions.
- Ensure that the loads in the trailer/caravan are secured so that they cannot slip.
- You should have an extended-arm mirror on both sides of your vehicle.
- Headlights may need re-aiming after the loaded caravan has been hitched.
- Use a lower gear, rather than your brakes when descending steep hills.
- If your caravan or trailer moves off the road behind you, allow the left wheels of your vehicle to move off as well. When it is safe to do so, carefully steer back on to the road. A sudden attempt to steer back could make you swerve dangerously.
- When towing, your tyres should be inflated to the maximum recommended pressure.
- Trailer brakes are required on trailers weighing over 500 kg when loaded. Some States require trailer brakes on loads less than 500 kg.
- The brakes on the trailer or caravan must be designed to cope with the braking requirements of that trailer or caravan under all towing conditions, without adversely affecting the brakes on the vehicle.
- Whenever a towbar is removed, be certain to have any mounting holes in the underbody properly sealed to prevent the possible entry of exhaust fumes, dust and water.
- Ensure that the tow bar does not obscure the rear licence plate. If necessary, remove the towbar tongue when it is not required for towing.
- More frequent vehicle maintenance is required when using your vehicle to pull a trailer or caravan, refer page 12-3.

CHAPTER 11

Cleaning

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INTERIOR CLEANING

11-2 Upholstery
11-2 Vinyl fabrics
11-3 Cloth fabrics
11-3 Carpet
11-3 Seat belts
11-3 Interior glass

EXTERIOR CLEANING

11-4 Washing
11-5 Grease, oil & tar spots
11-5 Polishing
11-5 Paint inspection
11-5 Wheels
11-6 Tyres
11-6 Exterior glass
11-7 Care & maintenance materials

WASHING

CAUTION: Care should be taken when moving the vehicle after washing, in case water has affected the brakes. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with a clear area ahead, until brake performance returns to normal.

Regular, thorough care improves the value and appearance of your vehicle. It is also a prerequisite for warranty claims on paint or corrosion damage.

Underbody cleaning

Your vehicle has a factory-applied PVC undercoating in the wheel arches (including longitudinal members) which provides permanent protection and needs no special maintenance. The surfaces of the vehicle underside not covered by PVC are provided with a durable protective wax coating.

Once a year, preferably before the start of the cold season the wax coating and PVC coating should be checked and if necessary, restored to perfect condition. Commercial bitumen and rubber materials can damage PVC coating. Have all work on the underbody performed by a Holden Dealer, as it requires knowledge of the specified materials and experience concerning their application.

The underbody should be washed following the end of the cold weather season to remove any dirt adhering to the underbody, since this may also contain salt.

Washing paint

Washing not only removes dirt and road grime that settles on the vehicle, but also dilutes acids which accompany such grime, in particular, salt from air or sea spray encountered in coastal areas which often become trapped in crevices. Tree sap, road tar, excretion from insects and industrial fall out often contain harmful chemicals and other foreign matter that may permanently damage the paint finish of the vehicle. These should be removed without delay, using an effective removal agent.

Reguiar washing

If the vehicle is in continuous use, it should be washed at least once a week with either cold or warm water (preferably running water), using clean chamois leathers, sponges or rags free from dirt or grit likely to scratch the paint finish. It is good practice to first hose the vehicle to remove as much of the grit and grime as possible before swabbing the surface.

Do not wash the vehicle under bright sunlight on hot days, as this will result in a streaky or spotted paint finish. This is caused by refraction of sunlight through the water drops (just like a magnifying glass) which concentrates the sunlight, producing very high temperatures on the paint surface. For the same reason, you should thoroughly dry the vehicle after washing.

Holden Foaming Car Wash or Wash On Shine loosens road grime to make washing easier and leaves paint shining clean, refer last pages of this chapter.

Do not use hot water, strong soap or chemical detergents. Any cleaner should be flushed promptly from the surface and not allowed to dry on the finish.

EXTERIOR CLEANING

Removing grease, oil and tar spots

Grease and oil, and even tar if it's fresh, can be removed from the finish with a little kerosene or turpentine. As a precaution against staining, wash and polish as soon as possible the area from which the foreign matter has been removed.

Warnings

- Some chemical cleaners used for removing road oils and tars from painted surfaces have been found to be detrimental to paint finishes.
- If petrol is spilt on the paint when refilling, flush off immediately with clean water, as petrol has a tendency to stain or soften new paint finish during the weathering out period, particularly when the vehicle is exposed to high temperatures.
- Petrol MUST NOT be used to clean any painted or plastic surfaces.

Polishing and waxing

Wax your vehicle regularly and in particular after it has been washed using shampoo, otherwise the paintwork will dry out. The vehicle must be re-waxed before water no longer forms beads on the paint. Waxing prevents harmful chemical action. Also wax edges and folds on opened doors and flaps as well the areas they cover.

Polishing is necessary only if the paint has become dull or if solid deposits have become attached to it. Plastic body parts should not be treated with wax or polish.

Paint inspection

Regular inspection of the vehicle should be made for scratch marks, cracks or damaged areas, all of which could develop rust and thus affect paint finish. Any deep scratches, cracks or breakdown in the finish should be repaired without delay. Care should be taken to ensure that any rusting is counteracted immediately, otherwise rust "creep" will extend beyond the damaged area. This applies particularly in sub-tropical areas or coastal districts, where the moist, or salt-laden atmosphere accelerates rusting if it is allowed to develop through neglect. The paint finish of the vehicle gives a very high degree of protection against the weather, but is should be realised that wear and deterioration occur when the vehicle is exposed to elements for prolonged periods. The vehicle therefore should be garaged whenever possible.

Wheels

Wheels are painted and can be treated with the same cleaner as the body.

EXTERIOR CLEANING, WHEELS & TYRES

Tyres

Sponging with cold water is all that is necessary for normal cleaning of the tyres. Oil and grease can, and should be removed with soap and water or detergent. For tar or other substances, a mild abrasive, such as mechanic's hand soap or kitchen cleaning powder, may be used if necessary. Thoroughly wash the tyres with water to finish. Petrol must not be used for cleaning tyres. Do not use high-pressure jet cleaners on wheels and tyres.

Glass cleaning - general

Special care should be taken to avoid scratching the glass when cleaning. If it is cleaned at the same time as the rest of the vehicle, there is a possibility that particles of grit will cause fine scratches. Flush off any heavy mud deposits on the glass when washing the body, but leave the final cleaning and polishing until afterwards. Use Holden Glass Cleaner and wash each section of glass in turn, making sure that the water, its container and the sponge are quite clean and free from grit. Clean old linen cloth is better than new material for polishing glass.

Windscreen

It is important that the windscreen be kept clean so that the wiper blades may be as effective as possible. Old wiper blades can cause windscreen scratching and so should be regularly inspected and replaced. Abrasive cleaners should never be used to clean glass as they can cause scratches, impairing night vision. After the windscreen has been cleaned with a wet sponge it should be wiped over with a soft, lint free cloth or chamois.

It is recommended that Holden Optikleen be added to the windscreen washer reservoir.

Wiper blades

Oil and road scum thrown up on the windscreen will cause smearing when the wipers are switched on, when the dirt is transferred onto the wiper blades. Many owners, whilst they methodically clean the windscreen glass, omit to clean the wiper blades and consequently smearing of the glass reappears immediately the wiper blades are used. The blades can be cleaned by lifting them off the windscreen and cleaning with Holden Optikleen and a clean cloth.

DO NOT OPERATE THE WIPER BLADES BY HAND AS THIS MAY DAMAGE THE WIPER DRIVE MECHANISM

If the wiper blades are used to clean dust and dirt from the windscreen in dry conditions always use the washer system first to wet the windscreen. Ensure that the windscreen washer reservoir is not empty.

Engine bay

Important areas of the engine bay have been protected with a lacquer coating. Wash the engine only if absolutely necessary. Before washing the engine, protect the alternator and brake fluid container with plastic covers. After washing, parts of the engine, parts of the brake system located in the engine bay, axle components as well as body parts and cavities may need to protectively re-waxed.

CARE & MAINTENANCE MATERIALS

HOLDEN PART NUMBER	SIZE	DESCRIPTION	USAGE
M39828	500 ml	Polymer glaze polish	Seals in a deep, lustrous, glazed finish. Long life protection from oxidation, salt and weather damage.
M39829	500 ml	Easy gloss polish	Contains silicones and hard working waxes for extra shine.
M39846	250 g	Deep shine glaze polish	Contains carnuba wax for a mirror finish.
M39830	500 ml	Wash on shine	Contains polymer protectants to shine. Adds a protective film to paintwork.
M39831	500 ml	Foaming car wash	Leaves a no-streak finish.
M38424	400 g	Velour fabric and vinyl cleaner	Cleans and deodorises velour, most fabric and vinyl upholstery, hood linings, mats and carpets.
M40383	350g	Tyre and bumper shine	Restores tyres and bumpers to as new finish.
M40501	350 g	Glass cleaner	Cleans all glass surfaces.
M39826	500 ml	Optikleen	Windscreen washer solvent.
M39168	125 g	Car freshener/deodorant	Removes tobacco smells and other odours.
M40500	300 g	Bug, tar and spot remover	Quickly dissolves and removes tar, grease, oil, bugs and other stubborn stains from your car's exterior.

CARE & MAINTENANCE MATERIALS

HOLDEN PART NUMBER	SIZE	DESCRIPTION	USAGE
M39760	350 g	Spray grease	Lithium based grease in a can. Sprays as a liquid. Ideal for springs, cables, linkages etc.
M40276	750 ml	Wheel cleaner	Cleaning of all wheels, including alloy wheels.
1050002	470 ml	Top engine cleaner	Purges gum, carbon, varnish and sludge from internal parts.
M41005	1 litre	Brake fluid	Extra heavy duty brake fluid.
92026651	500 ml	Brake fluid	Extra heavy duty brake fluid.
M40236	1 litre	Radiator coolant / inhibitor	Inhibitor providing year-round protection against corrosion and rust. Anti-freeze lowers freezing point for the cold winter months. Coolant increases boiling point of the cooling system for the summer months.
M40307	5 litres	"	
M40238	20 litres	"	
M39304	500 ml	Radiator cleaner	Use prior to or replacing coolant.
M37223	400 g	Degreaser	Removes oil and grease from engines.
M33028	27 g	Solid oil	Lubricant for locking mechanisms, door hinges, sticking windows.

CHAPTER 12

Servicing

Page

12-2 Service intervals
12-3 Extreme operating conditions
12-4 Maintenance schedule
12-6 Service costs
12-7 Maintenance coupons

SERVICE INTERVALS

When it comes to service, remember that your Holden Dealer has the trained personnel and specialised equipment to correctly service your vehicle. I-GM invites you to return to your Dealer for all your service needs both during and after the warranty period.

The safety, economy, emission control, performance and reliability of your vehicle cannot be assured unless regular maintenance is performed, preferably by factory-trained technicians.

Therefore, it is in your interest that the following services are performed at the specified Distance or Months (whichever occurs first).

15,000 km	- 1 year
30,000 km	- 2 years
45,000 km	- 3 years
60,000 km	- 4 years
75,000 km	- 5 years
90,000 km	- 6 years
105,000 km	- 7 years
120,000 km	- 8 years
135,000 km	- 9 years
150,000 km	- 10 years
165,000 km	- 11 years
180,000 km	- 12 years

The services shown in this schedule between 15,000 km and 180,000 km are to be performed after 180,000 km at the same intervals.

NOTE: All maintenance services as listed in this handbook and replacement of service items are the responsibility of the owner and as such are NOT considered, under the provisions of the new vehicle warranty to be rectification of defective material and workmanship. Items such as wheel alignment, necessary adjustments to the transmission, clutch, parking brake, etc. or any other items which may require servicing due to fair wear and tear will be carried out at the owner's cost.

Failure to have proper maintenance services carried out by an Authorised Holden Dealer or Service Dealer may void your new Vehicle Warranty. It is strongly recommended that you read the "New Vehicle Warranty" on page 9-2, so that you are aware of the conditions.

As each service is performed and the coupon removed, the following service coupon is readily visible to remind you when the next service is due.

After the service is completed, the owner should see that the Validation Record is stamped and signed by the Dealer. This is important, as it will not only assist in determining Warranty Claims, but will enhance the value of the vehicle on resale.

EXTREME OPERATING CONDITIONS

Under severe operating conditions, e.g. mainly city or short distance driving, driving on unsurfaced roads, during heavy dust accumulation, or trailer towing etc., additional maintenance operations, e.g. changes of engine oil, oil filter and air cleaner element, should be performed at shorter intervals. As a guide, if you operate continually for a period of one month or 1,500 km under any of the extreme conditions, then this could qualify for additional services.

If you are frequently driving in off road use, the propeller shafts and mountings require lubricating and checking every 10,000 km. If you are frequently driving through water, then the propeller shafts and mountings require lubricating and checking every 5,000 km.

Additional services should be verified in the spaces provided below. Your Holden Dealer can inform you which additional service is required between the normal service intervals after considering your specific operating conditions.

SPECIAL OPERATING CONDITIONS Date ..... km ..... Servicing Dealer ..... Operations performed	SPECIAL OPERATING CONDITIONS Date ..... km ..... Servicing Dealer ..... Operations performed ....
SPECIAL OPERATING CONDITIONS Date ..... km ..... Servicing Dealer ..... Operations performed	SPECIAL OPERATING CONDITIONS Date ..... km ..... Servicing Dealer ..... Operations performed ....
SPECIAL OPERATING CONDITIONS Date ..... km ..... Servicing Dealer ..... Operations performed	SPECIAL OPERATING CONDITIONS Date ..... km ..... Servicing Dealer ..... Operations performed ....

MAINTENANCE SCHEDULE

Use odometer reading or years, whichever occurs first	x 1,000 km	15	30	45	60	75	90	105	120	135	150	165	180
	or years	1	2	3	4	5	6	7	8	9	10	11	12
SERVICE ITEMS													
COOLANT - check level, check coolant %		1	2	3	4	5	6	7	8	9	10	11	12
DRIVE BELTS - check		1	2	3	4	5	6	7	8	9	10	11	12
ENGINE TOOTHED BELT - replace					4				8				12
AIR CLEANER paper element - replace			2		4		6		8		10		12
SPARK PLUGS - check, replace only if necessary			2		4		6		8		10		12
FUEL FILTER - replace			2		4		6		8		10		12
EXHAUST EMISSION - check with TECH 1: - readout of stored trouble codes - visual check of exhaust components - check idle speed, ignition timing, idle CO-contents - check function of catalytic converter		1	2	3	4	5	6	7	8	9	10	11	12
ENGINE OIL AND FILTER - replace		1	2	3	4	5	6	7	8	9	10	11	12
POWER STEERING - check level			2		4		6		8		10		12
LEAKAGE - visual check of engine and trans, transfer case, front and rear axles, fuel system and steering		1	2	3	4	5	6	7	8	9	10	11	12
LIGHTS AND SIGNALLING DEVICES - check		1	2	3	4	5	6	7	8	9	10	11	12
WINDSCREEN WIPE/WASH system - check fluid level and blade condition		1	2	3	4	5	6	7	8	9	10	11	12
CLUTCH and BRAKE fluid - check.		1	2	3	4	5	6	7	8	9	10	11	12
DOOR HINGES, DOOR STOPS, BONNET LOCK, TAILGATE HINGES - lubricate		1	2	3	4	5	6	7	8	9	10	11	12

MAINTENANCE SCHEDULE

Use odometer reading or years, whichever occurs first	x 1,000 km	15	30	45	60	75	90	105	120	135	150	165	180
	or years	1	2	3	4	5	6	7	8	9	10	11	12

SERVICE ITEMS

HEADLIGHT ADJUSTMENT - check	1	2	3	4	5	6	7	8	9	10	11	12
BODY/UNDERBODY - check corrosion protection	1	2	3	4	5	6	7	8	9	10	11	12
FRONT/REAR DISC BRAKES - check pad thickness	1	2	3	4	5	6	7	8	9	10	11	12
BRAKE PIPES, PRESSURE HOSES AND FUEL LINES - visual check	1	2	3	4	5	6	7	8	9	10	11	12
RUBBER BOOTS - check	1	2	3	4	5	6	7	8	9	10	11	12
WHEELS - check wheel nut torque, tyre condition and tyre pressure	1	2	3	4	5	6	7	8	9	10	11	12
PARK BRAKE CABLE - check		2		4		6		8		10		12
BALL JOINTS, FRONT AND REAR SUSPENSION AND STEERING - check	1	2	3	4	5	6	7	8	9	10	11	12
PROPELLOR SHAFTS AND MOUNTINGS - check, lubricate.	1	2	3	4	5	6	7	8	9	10	11	12
FRONT AND REAR AXLE - check fluid level	1	2		4	5		7	8		10	11	12
FRONT AND REAR AXLE - change fluid			3			6			9			12

MAINTENANCE SCHEDULE

Use odometer reading or years, whichever occurs first	x 1,000 km	15	30	45	60	75	90	105	120	135	150	165	180
	or years	1	2	3	4	5	6	7	8	9	10	11	12

SERVICE ITEMS

TRANSMISSION / TRANSFER CASE - check fluid level	1	2		4	5		7	8		10	11	
TRANSMISSION / TRANSFER CASE - change fluid			3			6			9			12
FRONT HUB BEARINGS - check pre-load	1	2	3	4	5	6	7	8	9	10	11	12
FRONT HUB BEARINGS - lubricate		2		4		6		8		10		12
BRAKE PROPORTIONING VALVE- check	1	2	3	4	5	6	7	8	9	10	11	12
BRAKE and CLUTCH FLUID - change		change every 2 years (regardless of km)										
ROAD TEST	1	2	3	4	5	6	7	8	9	10	11	12

SERVICE TIMES

Labour hours	3.0	3.4	3.0	4.0	3.0	4.0	3.0	4.0	3.0	4.0	3.0	4.0
add 0.4 hours when brake and clutch fluid changed												

- The owner will be charged for all lubricants and materials used plus labour at the times recommended above.
- The repair or replacement of any part found faulty during a service check and not covered by Holden Warranty will be added to the charges.
- Where any deficiencies are noted, such items should be reported to the owner/ operator so that the extra work required can be authorised.
- The use of break-in oil, tune up compounds, friction reducing compounds and other supplemental additives are not recommended; their use will not only increase operating costs, but may indeed be harmful to your vehicle.

15,000 km or 1 year

SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 3.0 hours

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

15,000 km or 1 year Service Validation

Servicing Dealer .....
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ EXHAUST EMISSION - check with TECH 1: - read-out of stored trouble codes - visual check of exhaust components - check idle speed, ignition timing, idle CO-contents - check function of catalytic converter
- ❑ ENGINE OIL AND FILTER - replace
- ❑ LEAKAGE - visual check of engine and trans., transfer case, front and rear axles, fuel system and steering
- ❑ LIGHTS AND SIGNALLING DEVICES - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ CLUTCH and BRAKE fluid - check level
- ❑ DOOR HINGES, DOOR STOPS, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT/REAR DISC BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES AND FUEL LINES - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ BALL JOINTS, FRONT and REAR SUSPENSION and STEERING - check, lubricate
- ❑ PROPELLOR SHAFTS and MOUNTINGS - check, lubricate
- ❑ FRONT and REAR AXLE - check fluid level
- ❑ TRANSMISSION/TRANSFER CASE - check fluid level
- ❑ FRONT HUB BEARINGS - check pre-load
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST

30,000 km or 2 years

SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 3.4 hours
- add 0.4 hours if brake and clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

30,000 km or 2 year Service Validation

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ AIR CLEANER paper element - replace
- ❑ SPARK PLUGS - check, replace only if necessary
- ❑ FUEL FILTER - replace
- ❑ EXHAUST EMISSION - check with TECH 1: - read-out of stored trouble codes - visual check of exhaust components - check idle speed, ignition timing, idle CO-contents - check function of catalytic converter
- ❑ ENGINE OIL AND FILTER - replace
- ❑ POWER STEERING - check level
- ❑ LEAKAGE - visual check of engine and trans., transfer case, front and rear axles, fuel system and steering
- ❑ LIGHTS AND SIGNALLING DEVICES - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ CLUTCH and BRAKE fluid - check level
- ❑ DOOR HINGES, DOOR STOPS, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT/REAR DISC BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES AND FUEL LINES - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ PARK BRAKE CABLE - check
- ❑ BALL JOINTS, FRONT and REAR SUSPENSION and STEERING - check, lubricate
- ❑ PROPELLOR SHAFTS and MOUNTINGS - check, lubricate
- ❑ FRONT and REAR AXLE - check fluid level
- ❑ TRANSMISSION/TRANSFER CASE - check fluid level
- ❑ FRONT HUB BEARINGS - check pre-load
- ❑ FRONT HUB BEARINGS - lubricate
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST

- ❑ BRAKE and CLUTCH FLUID - change every 2 years (regardless of km)

45,000 km or 3 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 3.0 hours
- add 0.4 hours if brake and clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

45,000 km or 3 years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ EXHAUST EMISSION - check with TECH 1: - read-out of stored trouble codes - visual check of exhaust components - check idle speed, ignition timing, idle CO-contents - check function of catalytic converter
- ❑ ENGINE OIL AND FILTER - replace
- ❑ LEAKAGE - visual check of engine and trans., transfer case, front and rear axles, fuel system and steering
- ❑ LIGHTS AND SIGNALLING DEVICES - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ CLUTCH and BRAKE fluid - check level
- ❑ DOOR HINGES, DOOR STOPS, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT/REAR DISC BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES AND FUEL LINES - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ BALL JOINTS, FRONT and REAR SUSPENSION and STEERING - check, lubricate
- ❑ PROPELLOR SHAFTS and MOUNTINGS - check, lubricate
- ❑ FRONT and REAR AXLE - change fluid
- ❑ TRANSMISSION/TRANSFER CASE - change fluid
- ❑ FRONT HUB BEARINGS - check pre-load
- ❑ BRAKE PROPORTIONING VALVE - check

- ❑ BRAKE and CLUTCH FLUID - change every 2 years (regardless of km)

60,000 km or 4 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 4.0 hours
- add 0.4 hours if brake and clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

60,000 km or 4 years Service Validation

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ ENGINE TOOTHED BELT - REPLACE
- ❑ AIR CLEANER paper element - replace
- ❑ SPARK PLUGS - check, replace only if necessary
- ❑ FUEL FILTER - replace
- ❑ EXHAUST EMISSION - check with TECH 1: - read-out of stored trouble codes - visual check of exhaust components - check idle speed, ignition timing, idle CO-contents - check function of catalytic converter
- ❑ ENGINE OIL AND FILTER - replace
- ❑ POWER STEERING - check level
- ❑ LEAKAGE - visual check of engine and trans., transfer case, front and rear axles, fuel system and steering
- ❑ LIGHTS AND SIGNALLING DEVICES - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ CLUTCH and BRAKE fluid - check level
- ❑ DOOR HINGES, DOOR STOPS, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT/REAR DISC BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES AND FUEL LINES - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ PARK BRAKE CABLE - check
- ❑ BALL JOINTS, FRONT and REAR SUSPENSION and STEERING - check, lubricate
- ❑ PROPELLOR SHAFTS and MOUNTINGS - check, lubricate
- ❑ FRONT and REAR AXLE - check fluid level
- ❑ TRANSMISSION/TRANSFER CASE - check fluid level
- ❑ FRONT HUB BEARINGS - check pre-load
- ❑ FRONT HUB BEARINGS - lubricate
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST

- ❑ BRAKE and CLUTCH FLUID - change every 2 years (regardless of km)

75,000 km or 5 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 3.0 hours
- add 0.4 hours if brake and clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

75,000 km or 5 years Service Validation

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ EXHAUST EMISSION - check with TECH 1: - read-out of stored trouble codes - visual check of exhaust components - check idle speed, ignition timing, idle CO-contents - check function of catalytic converter
- ❑ ENGINE OIL AND FILTER - replace
- ❑ LEAKAGE - visual check of engine and trans., transfer case, front and rear axles, fuel system and steering
- ❑ LIGHTS AND SIGNALLING DEVICES - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ CLUTCH and BRAKE fluid - check level
- ❑ DOOR HINGES, DOOR STOPS, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT/REAR DISC BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES AND FUEL LINES - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ BALL JOINTS, FRONT and REAR SUSPENSION and STEERING - check, lubricate
- ❑ PROPELLOR SHAFTS and MOUNTINGS - check, lubricate
- ❑ FRONT and REAR AXLE - check fluid level
- ❑ TRANSMISSION/TRANSFER CASE - check fluid level
- ❑ FRONT HUB BEARINGS - check pre-load
- ❑ BRAKE PROPORTIONING VALVE - check

- ❑ BRAKE and CLUTCH FLUID - change every 2 years (regardless of km)

90,000 km or 6 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 4.0 hours
- add 0.4 hours if brake and clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

90,000 km or 6 years Service Validation

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ AIR CLEANER paper element - replace
- ❑ SPARK PLUGS - check, replace only if necessary
- ❑ FUEL FILTER - replace
- ❑ EXHAUST EMISSION - check with TECH 1: - read-out of stored trouble codes - visual check of exhaust components - check idle speed, ignition timing, idle CO-contents - check function of catalytic converter
- ❑ ENGINE OIL AND FILTER - replace
- ❑ POWER STEERING - check level
- ❑ LEAKAGE - visual check of engine and trans., transfer case, front and rear axles, fuel system and steering
- ❑ LIGHTS AND SIGNALLING DEVICES - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ CLUTCH and BRAKE fluid - check level
- ❑ DOOR HINGES, DOOR STOPS, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT/REAR DISC BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES AND FUEL LINES - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ PARK BRAKE CABLE - check
- ❑ BALL JOINTS, FRONT and REAR SUSPENSION and STEERING - check, lubricate
- ❑ PROPELLOR SHAFTS and MOUNTINGS - check, lubricate
- ❑ FRONT and REAR AXLE - change fluid
- ❑ TRANSMISSION/TRANSFER CASE - change fluid
- ❑ FRONT HUB BEARINGS - check pre-load
- ❑ FRONT HUB BEARINGS - lubricate
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST
- ❑ BRAKE and CLUTCH FLUID - change every 2 years (regardless of km)

105,000 km or 7 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 3.0 hours
- add 0.4 hours if brake and clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature .....

Date .....

105,000 km or 7 years Service Validation

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ EXHAUST EMISSION - check with TECH 1: - read-out of stored trouble codes - visual check of exhaust components - check idle speed, ignition timing, idle CO-contents - check function of catalytic converter
- ❑ ENGINE OIL AND FILTER - replace
- ❑ LEAKAGE - visual check of engine and trans., transfer case, front and rear axles, fuel system and steering
- ❑ LIGHTS AND SIGNALLING DEVICES - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ CLUTCH and BRAKE fluid - check level
- ❑ DOOR HINGES, DOOR STOPS, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT/REAR DISC BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES AND FUEL LINES - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ BALL JOINTS, FRONT and REAR SUSPENSION and STEERING - check, lubricate
- ❑ PROPELLOR SHAFTS and MOUNTINGS - check, lubricate
- ❑ FRONT and REAR AXLE - check fluid level
- ❑ TRANSMISSION/TRANSFER CASE - check fluid level
- ❑ FRONT HUB BEARINGS - check pre-load
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ BRAKE and CLUTCH FLUID - change every 2 years (regardless of km)

120,000 km or 8 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 4.0 hours
- add 0.4 hours if brake and clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

.....

Signature .....

Date .....

120,000 km or 8 years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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.....
.....

- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ ENGINE TOOTHED BELT - REPLACE
- ❑ AIR CLEANER paper element - replace
- ❑ SPARK PLUGS - check, replace only if necessary
- ❑ FUEL FILTER - replace
- ❑ EXHAUST EMISSION - check with TECH 1: - read-out of stored trouble codes - visual check of exhaust components - check idle speed, ignition timing, idle CO-contents - check function of catalytic converter
- ❑ ENGINE OIL AND FILTER - replace
- ❑ POWER STEERING - check level
- ❑ LEAKAGE - visual check of engine and trans., transfer case, front and rear axles, fuel system and steering
- ❑ LIGHTS AND SIGNALLING DEVICES - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ CLUTCH and BRAKE fluid - check level
- ❑ DOOR HINGES, DOOR STOPS, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT/REAR DISC BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES AND FUEL LINES - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ PARK BRAKE CABLE - check
- ❑ BALL JOINTS, FRONT and REAR SUSPENSION and STEERING - check, lubricate
- ❑ PROPELLOR SHAFTS and MOUNTINGS - check, lubricate
- ❑ FRONT and REAR AXLE - check fluid level
- ❑ TRANSMISSION/TRANSFER CASE - check fluid level
- ❑ FRONT HUB BEARINGS - check pre-load
- ❑ FRONT HUB BEARINGS - lubricate
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST

- ❑ BRAKE and CLUTCH FLUID - change every 2 years (regardless of km)

135,000 km or 9 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 3.0 hours
- add 0.4 hours if brake and clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

.....

Signature .....

Date .....

135,000 km or 9 years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ EXHAUST EMISSION - check with TECH 1: - read-out of stored trouble codes - visual check of exhaust components - check idle speed, ignition timing, idle CO-contents - check function of catalytic converter
- ❑ ENGINE OIL AND FILTER - replace
- ❑ LEAKAGE - visual check of engine and trans., transfer case, front and rear axles, fuel system and steering
- ❑ LIGHTS AND SIGNALLING DEVICES - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ CLUTCH and BRAKE fluid - check level
- ❑ DOOR HINGES, DOOR STOPS, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT/REAR DISC BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES AND FUEL LINES - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ BALL JOINTS, FRONT and REAR SUSPENSION and STEERING - check, lubricate
- ❑ PROPELLOR SHAFTS and MOUNTINGS - check, lubricate
- ❑ FRONT and REAR AXLE - change fluid
- ❑ TRANSMISSION/TRANSFER CASE - change fluid
- ❑ FRONT HUB BEARINGS - check pre-load
- ❑ BRAKE PROPORTIONING VALVE - check

- ❑ BRAKE and CLUTCH FLUID - change every 2 years (regardless of km)

150,000 km or 10 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 4.0 hours
- add 0.4 hours if brake and clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

.....

Signature .....

Date .....

150,000 km or 10 years Service Validation

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ AIR CLEANER paper element - replace
- ❑ SPARK PLUGS - check, replace only if necessary
- ❑ FUEL FILTER - replace
- ❑ EXHAUST EMISSION - check with TECH 1: - read-out of stored trouble codes - visual check of exhaust components - check idle speed, ignition timing, idle CO-contents - check function of catalytic converter
- ❑ ENGINE OIL AND FILTER - replace
- ❑ POWER STEERING - check level
- ❑ LEAKAGE - visual check of engine and trans., transfer case, front and rear axles, fuel system and steering
- ❑ LIGHTS AND SIGNALLING DEVICES - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ CLUTCH and BRAKE fluid - check level
- ❑ DOOR HINGES, DOOR STOPS, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT/REAR DISC BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES AND FUEL LINES - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ PARK BRAKE CABLE - check
- ❑ BALL JOINTS, FRONT and REAR SUSPENSION and STEERING - check, lubricate
- ❑ PROPELLOR SHAFTS and MOUNTINGS - check, lubricate
- ❑ FRONT and REAR AXLE - check fluid level
- ❑ TRANSMISSION/TRANSFER CASE - check fluid level
- ❑ FRONT HUB BEARINGS - check pre-load
- ❑ FRONT HUB BEARINGS - lubricate
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST

- ❑ BRAKE and CLUTCH FLUID - change every 2 years (regardless of km)

165,000 km or 11 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 3.0 hours
- add 0.4 hours if brake and clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

.....

Signature .....

Date .....

165,000 km or 11 years Service Validation

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ EXHAUST EMISSION - check with TECH 1: - read-out of stored trouble codes - visual check of exhaust components - check idle speed, ignition timing, idle CO-contents - check function of catalytic converter
- ❑ ENGINE OIL AND FILTER - replace
- ❑ LEAKAGE - visual check of engine and trans., transfer case, front and rear axles, fuel system and steering
- ❑ LIGHTS AND SIGNALLING DEVICES - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ CLUTCH and BRAKE fluid - check level
- ❑ DOOR HINGES, DOOR STOPS, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT/REAR DISC BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES AND FUEL LINES - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ BALL JOINTS, FRONT and REAR SUSPENSION and STEERING - check, lubricate
- ❑ PROPELLOR SHAFTS and MOUNTINGS - check, lubricate
- ❑ FRONT and REAR AXLE - check fluid level
- ❑ TRANSMISSION/TRANSFER CASE - check fluid level
- ❑ FRONT HUB BEARINGS - check pre-load
- ❑ BRAKE PROPORTIONING VALVE - check

- ❑ BRAKE and CLUTCH FLUID - change every 2 years (regardless of km)

180,000 km or 12 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.

I understand I will be charged for the following hours of labour:

- 4.0 hours
- add 0.4 hours if brake and clutch fluid changed

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

.....

Signature .....

Date .....

180,000 km or 12 years Service Validation

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Additional services performed: .....

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- ❑ COOLANT - check level, check coolant %
- ❑ DRIVE BELTS - check
- ❑ ENGINE TOOTHED BELT - REPLACE
- ❑ AIR CLEANER paper element - replace
- ❑ SPARK PLUGS - check, replace only if necessary
- ❑ FUEL FILTER - replace
- ❑ EXHAUST EMISSION - check with TECH 1: - read-out of stored trouble codes - visual check of exhaust components - check idle speed, ignition timing, idle CO-contents - check function of catalytic converter
- ❑ ENGINE OIL AND FILTER - replace
- ❑ POWER STEERING - check level
- ❑ LEAKAGE - visual check of engine and trans., transfer case, front and rear axles, fuel system and steering
- ❑ LIGHTS AND SIGNALLING DEVICES - check
- ❑ WINDSCREEN WIPE/WASH system - check fluid level and blade condition
- ❑ CLUTCH and BRAKE fluid - check level
- ❑ DOOR HINGES, DOOR STOPS, BONNET LOCK, TAILGATE HINGES - lubricate
- ❑ HEADLIGHT ADJUSTMENT - check
- ❑ BODY/UNDERBODY - check corrosion protection
- ❑ FRONT/REAR DISC BRAKES - check pad thickness
- ❑ BRAKE PIPES, BRAKE PRESSURE HOSES AND FUEL LINES - visual check
- ❑ RUBBER BOOTS - check
- ❑ WHEELS - check wheel nut torque, tyre condition and tyre pressure
- ❑ PARK BRAKE CABLE - check
- ❑ BALL JOINTS, FRONT and REAR SUSPENSION and STEERING - check, lubricate
- ❑ PROPELLOR SHAFTS and MOUNTINGS - check, lubricate
- ❑ FRONT and REAR AXLE - change fluid
- ❑ TRANSMISSION/TRANSFER CASE - change fluid
- ❑ FRONT HUB BEARINGS - check pre-load
- ❑ FRONT HUB BEARINGS - lubricate
- ❑ BRAKE PROPORTIONING VALVE - check
- ❑ ROAD TEST

- ❑ BRAKE and CLUTCH FLUID - change every 2 years (regardless of km)

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